

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Airfield Pond, Lower, Unnamed Tributary		
TMDL Group ID:	01563		
VAT-K35R_XDZ02A04	UT Airfield Pond - Lower	SUSSEX CO	Willis Branch to Airfield Pond, PRO CAFO special study. Segment starts near Rt 622 downstream to Airfield Pond.
VA Overall AU Category: 5A	Impairment	1.55 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01563	2004 2016 Aquatic Life Use is impaired due to depressed pH concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (7 violates / 10 obs) does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. . Below pH minimum criteria = 6.0 SU
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	01564		
VAT-K35R_XDZ02A04	UT Airfield Pond - Lower	SUSSEX CO	Willis Branch to Airfield Pond, PRO CAFO special study. Segment starts near Rt 622 downstream to Airfield Pond.
VA Overall AU Category: 5A	Impairment	1.55 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01564	2004 2016
Sources: Source Unknown			
TMDL Group ID:	01565		
VAT-K35R_XDZ02A04	UT Airfield Pond - Lower	SUSSEX CO	Willis Branch to Airfield Pond, PRO CAFO special study. Segment starts near Rt 622 downstream to Airfield Pond.
VA Overall AU Category: 5A	Impairment	1.55 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01565	2004 2016 Aquatic Life Use is impaired due to depressed DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (5 violates / 10 obs) does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Airfield Pond, Upper, Unnamed Tributary		
TMDL Group ID:	01561		
VAT-K35R_XDZ01A04	UT Airfield Pond - Upper	SUSSEX CO	UT (Willis Branch) to Airfield Pond, PRO CAFO special study. Headwaters to half-way between Rt 622 and Rt 729 (approx. RM 1.23) at confluence with UT.
VA Overall AU Category: 5A	Impairment 1.23 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Use Aquatic Life	Oxygen, Dissolved	01561 2004 2016	Aquatic Life Use is impaired due to depressed DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (6 violations / 17 obs) does not meet previous criteria applicable at time of listing. Impairment is suspected due to natural swamp conditions present in these waters. Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	01562		
VAT-K35R_XDZ01A04	UT Airfield Pond - Upper	SUSSEX CO	UT (Willis Branch) to Airfield Pond, PRO CAFO special study. Headwaters to half-way between Rt 622 and Rt 729 (approx. RM 1.23) at confluence with UT.
VA Overall AU Category: 5A	Impairment 1.23 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Escherichia coli	01562 2004 2016	Previous impairment (TMDL ID: VAT-K41R-05) based on fecal coliform is retained (13 violates / 16 observations) since insufficient observations (2 violates / 2 observations) to implement the new standard for Ecoli. TMDL due date retained per H. Augustine e-mail 2/6/06.
Sources: Animal Feeding Operations (NPS) Source Unknown			
Recreation	Fecal Coliform	01562 2004 2016	Previous impairment (TMDL ID: VAT-K41R-05) based on fecal coliform is retained (13 violates / 16 observations) since insufficient observations (2 violates / 2 observations) to implement the new standard for Ecoli. TMDL due date retained per H. Augustine e-mail 2/6/06.
Sources: Animal Feeding Operations (NPS) Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Albermarle Canal (upstream of North Landing River)		
TMDL Group ID:	00643		
VAT-K41R_AAC01A06	Albermarle Canal (upstream of North Landing River)	CHESAPEAKE CITY	Albermarle and Chesapeake Canal (Intracoastal Waterway) from Great Bridge Locks downstream to confluence with North Landing R. (RM 13.65).
VA Overall AU Category: 5A	Impairment	8.73 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00643	2002 2010 Monitoring needed. Assessment extrapolated from downstream station (5BNLR013.61) in segment VAT-K41R_NLR02A06. Aquatic Life Use impairment due to low dissolved oxygen concentrations. The cause of the depressed dissolved oxygen concentrations is suspected to be naturally occurring and due to high organic content and stagnant conditions within these waters adjacent to the Intracoastal Waterway. Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
VAT-K41R_NLR02A06	North Landing River - Middle	CHESAPEAKE CITY VIRGINIA BEACH CITY	From confluence with Intracoastal Waterway (RM 13.65) downstream to instream Island (RM 12.01, upstream of confluence of West Neck Creek).
VA Overall AU Category: 5A	Impairment	8.48 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00643	2002 2010 The cause of the depressed dissolved oxygen concentrations is suspected (but can not be confirmed since moderate development in watershed) to be naturally occurring and due to high organic content and stagnant conditions within these waters adjacent to th
Sources: Source Unknown			
TMDL Group ID:	01575		
VAT-K41R_AAC01A06	Albermarle Canal (upstream of North Landing River)	CHESAPEAKE CITY	Albermarle and Chesapeake Canal (Intracoastal Waterway) from Great Bridge Locks downstream to confluence with North Landing R. (RM 13.65).
VA Overall AU Category: 5A	Impairment	8.73 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01575	2004 2016 Monitoring needed. Assessment extrapolated from downstream station (5BNLR013.61) in segment VAT-K41R_NLR02A06. Aquatic Life and Wildlife Uses impairments related to chloride exceedance of acute criteria (freshwater criteria apply since classified Tidal Freshwater). The cause of the chloride standard exceedance is attributed to naturally occurring conditions of saline water intrusion from downstream estuarine waters (Albemarle Sound, North Carolina). Exceed stream chloride criteria = 860 mg/L
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
Wildlife	Chloride	01575	2004 2016
Sources: Source Unknown			

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Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Albermarle Canal (upstream of North Landing River)		
TMDL Group ID:	01575		
VAT-K41R_NLR02A06	North Landing River - Middle	CHESAPEAKE CITY VIRGINIA BEACH CITY	From confluence with Intracoastal Waterway (RM 13.65) downstream to instream Island (RM 12.01, upstream of confluence of West Neck Creek).
VA Overall AU Category: 5A	Impairment	8.48 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01575 2006 2016	Aquatic Life and Wildlife Uses impairments related to chloride exceedance of acute criteria (freshwater criteria apply since classified Tidal Freshwater). The cause of the chloride standard exceedance is attributed to naturally occurring conditions of saline water intrusion from downstream estuarine waters (Albemarle Sound, North Carolina).
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Applewhite Swamp		
TMDL Group ID:	01545		
VAT-K27R_APW01A04	AppleWhite Swamp	SOUTHAMPTON CO SUSSEX CO	Located south of Mason & northeast of Arringdale. Segment extends from start of swamp (near Harrells Mill) downstream to confluence with Three Creek.
VA Overall AU Category: 5C	Impairment	7.77 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01545 2004 2016	Aquatic Life Use is impaired due to low pH concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairment since current (2 violates / 2 obs.; criteria pH > 6.0) data does not meet previous criteria applicable at time of listing). Impairment is suspected due to naturally acidic swamp conditions present in these waters.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Ashville Bridge Creek - Lower		
TMDL Group ID:	76062		
VAT-K42E_ASH01A06	Ashville Bridge Creek - Lower	VIRGINIA BEACH CITY	Lower portion of Ashville Br. Cr., between Hell Point and Muddy Creeks
VA Overall AU Category: 5A	Impairment	0.00 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	76062 2006 2018	Source of low dissolved oxygen is probably natural conditions from low flow swamp conditions in upstream area with high organic inputs and tannic acid conditions. This is an area of hardwood swamp/wetlands where low dissolved oxygen levels and low pH can naturally occur due to high organic matter content, tannic acid conditions and low flow velocities.
Sources: Natural Sources			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Ashville Bridge Creek - Lower		
TMDL Group ID:	76063		
VAT-K42E_ASH01A06	Ashville Bridge Creek - Lower	VIRGINIA BEACH CITY	Lower portion of Ashville Br. Cr., between Hell Point and Muddy Creeks
VA Overall AU Category: 5A	Impairment	0.00 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	pH	76063	2006 2018 Source of low pH is probably natural conditions from low flow swamp conditions in upstream area with high organic inputs and tannic acid conditions. This is an area of hardwood swamp/wetlands where low pH can naturally occur due to high organic matter content, tannic acid conditions and low flow velocities.
Sources: Natural Sources			
TMDL Group ID:	76064		
VAT-K42E_ASH01A06	Ashville Bridge Creek - Lower	VIRGINIA BEACH CITY	Lower portion of Ashville Br. Cr., between Hell Point and Muddy Creeks
VA Overall AU Category: 5A	Impairment	0.00 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Enterococcus	76064	2006 2018
Recreation	Fecal Coliform	76064	2006 2018
Sources: Source Unknown			
TMDL Watershed Name:	Assamoosick, Seacorrie, German, Pigeon Swamps		
TMDL Group ID:	00484		
VAP-K29R_GMN01A02	German Swamp	SUSSEX CO	The mainstem of German Swamp.
VA Overall AU Category: 5A	Impairment	3.65 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	pH	00484	1998 2010 VAP-K29R-01
During the 2006 cycle, the Assamoosick Swamp watershed has been reclassified as Class VII swampwaters and the applicable pH criteria has been adjusted to 4.3 -9.0 SU. The DO criteria specific for swampwaters has not been developed yet.			
German Swamp was reassessed against the new pH criteria, but has an unacceptable violation rate of 7/20 at 5AGMN003.19. Although believed to be a natural condition in this relatively pristine headwater stream, the segment must be assessed as Cat. 5C. The segment remains impaired for DO as a Cat 4C until the new criteria are developed.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Assamoosick, Seacorrie, German, Pigeon Swamps		
TMDL Group ID:	00498		
VAP-K29R_ASM01A98	Assamoosick Swamp	SOUTHAMPTON CO SUSSEX CO	Headwaters to Route 607 bridge.
VA Overall AU Category: 5A	Impairment	11.88 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00498 2002 2010	VAP-K29R-01
<p>In 1998, the entire mainstem of Assamoosick Swamp (23.8 miles) was assessed fully supporting but threatened of the Recreation Use. The segment was later identified to Virginia for listing consideration (station 5AASM013.36). The segment was downgraded in 2002, therefore the TMDL is due in 2010. In 2002 Black Swamp, Seacorrie Swamp, XDW, and XDX were also considered impaired of the Recreation Use. These TMDLs are due in 2014. In 2004, German Swamp was added to the impairment. This TMDL is due in 2016. During the 2006 cycle, several E. coli impairments were added in the watershed; these bacteria impairments have the same TMDL due date as the original FC impairments.</p> <p>Note: the fecal coliform impairment of Assamoosick Swamp was shortened in the year 2002 cycle to end at the Route 607 bridge. There continues to be acceptable fecal coliform levels in this downstream portion (0/3 at 5AASM003.00, 0/13 at 5AASM000.89).</p>			
Sources: Source Unknown			
VAP-K29R_XDW01A02	UT to Assamoosick Swamp	SUSSEX CO	UT to Assamoosick Swamp
VA Overall AU Category: 5A	Impairment	2.05 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	00498 2006 2014	VAP-K29R-01
<p>E. coli was added as an impairment in 2006, but the fecal coliform TMDL due date was maintained.</p>			
Sources: Animal Feeding Operations (NPS) Source Unknown			
Recreation	Fecal Coliform	00498 2002 2014	VAP-K29R-01
<p>E. coli was added as an impairment in 2006, but the fecal coliform TMDL due date was maintained.</p>			
Sources: Animal Feeding Operations (NPS) Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Assamoosick, Seacorrie, German, Pigeon Swamps		
TMDL Group ID:	01361		
VAP-K29R_GMN01A02	German Swamp	SUSSEX CO	The mainstem of German Swamp.
VA Overall AU Category: 5A	Impairment	3.65 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01361 2004 2016	VAP-K29R-01
<p>In 1998, the entire mainstem of Assamoosick Swamp (23.8 miles) was assessed fully supporting but threatened of the Recreation Use. The segment was later identified to Virginia for listing consideration (station 5AASM013.36). The segment was downgraded in 2002, therefore the TMDL is due in 2010. In 2002 Black Swamp, Seacorrie Swamp, XDW, and XDX were also considered impaired of the Recreation Use. These TMDLs are due in 2014. In 2004, German Swamp was added to the impairment. This TMDL is due in 2016. During the 2006 cycle, several E. coli impairments were added in the watershed; these bacteria impairments have the same TMDL due date as the original FC impairments.</p> <p>During the 2006 cycle, German Swamp had fecal coliform violation rates of 5/12 and 13/22 at stations 5AGMN000.54 and 5AGMN003.19, respectively.</p> <p>Sources: Animal Feeding Operations (NPS) Source Unknown</p>			
TMDL Watershed Name:	Beggars Bridge Creek		
TMDL Group ID:	01580		
VAT-K42E_BBC01A04	Beggars Bridge Creek	VIRGINIA BEACH CITY	Located southeast of Dawley Corners, tributary to Shipps Bay. Segment begins at the confluence of numerous unnamed tributaries (RM 1.34) near Dawley Corners and extends downstream to the mouth at the confluence with Shipps Bay.
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Enterococcus	01580 2006 2016	Previous impairment based on fecal coliform is replaced by the new standard for Enterococcus, effective with attainment of observation minimum (4 violates / 15 observations). TMDL due date retained per H. Augustine e-mail 2/6/06.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Big Juniper Creek		
TMDL Group ID:	50102		
VAC-K02R_BJC01A98	Big Juniper Creek	LUNENBERG CO	Little Juniper Creek to mouth.
VA Overall AU Category: 5A	Impairment	6.56 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	50102	2006 2018
	Sources: Source Unknown		
Black Swamp			
TMDL Watershed Name:	Black Swamp		
TMDL Group ID:	01360		
VAP-K29R_BLS01A00	Black Swamp	SUSSEX CO	Headwaters to Assamoosick Swamp.
VA Overall AU Category: 5A	Impairment	3.77 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01360	2002 2014 VAP-K29R-01
	Sources: Source Unknown		In 1998, the entire mainstem of Assamoosick Swamp (23.8 miles) was assessed fully supporting but threatened of the Recreation Use. The segment was later identified to Virginia for listing consideration (station 5AASM013.36). The segment was downgraded in 2002, therefore the TMDL is due in 2010. In 2002 Black Swamp, Seacorie Swamp, XDW, and XDX were also considered impaired of the Recreation Use. These TMDLs are due in 2014. In 2004, German Swamp was added to the impairment. This TMDL is due in 2016. During the 2006 cycle, several E. coli impairments were added in the watershed; these bacteria impairments have the same TMDL due date as the original FC impairments.
			No new data has been collected since 2001, therefore the fecal coliform impairment has been carried over.
Blackwater Creek			
TMDL Watershed Name:	Blackwater Creek		
TMDL Group ID:	76059		
VAT-K41R_BKW01A00	Blackwater Creek	CHESAPEAKE CITY	Blackwater Creek from headwaters at RM 3.2 to confluence with North Landing River Rm 0.0.
VA Overall AU Category: 5A	Impairment	4.41 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	76059	2006 2018
	Sources: Source Unknown		Recreation Use impaired due to Ecoli concentrations exceeding the swimming indicator criteria.

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Blackwater River		
TMDL Group ID:	00500		
VAP-K32R_BLW01B98	Blackwater River	SURRY CO SUSSEX CO	Warwick Swamp to Cypress Swamp
VA Overall AU Category: 5A Use Recreation	Impairment 16.64 MILES Escherichia coli	TMDL Group ID 00500 First Listed on 303(d) 2006 TMDL Schedule 2014	Impairment Specific Comments and/or Impairment Specific VA Category VAP-K32R-01 The segment was assessed not supporting of the Recreation Use based on fecal coliform violations at 5ABLW074.66. The Recreation Use impairment was first listed in 2002, therefore the fecal coliform TMDL is not due until 2014. During the 2006 cycle, the fecal coliform violation rate was acceptable, however the segment was considered impaired for E. coli based on a violation rate of 2/9 at 5ABLW058.22 and 3/9 at 5ABLW074.66. The FC impairment was changed to E. coli, and the original TMDL due date was maintained.
Sources: Source Unknown			
VAP-K32R_BLW02B98	Blackwater River	SURRY CO SUSSEX CO	Route 31 to Cypress Swamp
VA Overall AU Category: 5A Use Recreation	Impairment 7.91 MILES Escherichia coli	TMDL Group ID 00500 First Listed on 303(d) 2006 TMDL Schedule 2014	Impairment Specific Comments and/or Impairment Specific VA Category VAP-K32R-01 The segment was assessed not supporting of the Recreation Use based on a fecal coliform violations 5ABLW074.66. The Recreation Use impairment was first listed in 2002, therefore the fecal coliform TMDL is not due until 2014. During the 2006 cycle, the fecal coliform violation rate was acceptable, however the segment was considered impaired for E. coli based on a violation rate of 2/9 at 5ABLW058.22 and 3/9 at 5ABLW074.66. The FC impairment was changed to E. coli, and the original TMDL due date was maintained.
Sources: Source Unknown			
TMDL Group ID:	00639		
VAT-K36R_BLW02A06	Blackwater River - Middle	ISLE OF WIGHT CO SOUTHAMPTON CO	From end of tidal influence, RM 22.80 (downstream of Rt 611, Joyner Br.) downstream to RM 12.62 (downstream of Franklin, confluence of UT,parallel to Hayden High School).
VA Overall AU Category: 5A Use Aquatic Life	Impairment 9.77 MILES Oxygen, Dissolved	TMDL Group ID 00639 First Listed on 303(d) 1996 TMDL Schedule 2010	Impairment Specific Comments and/or Impairment Specific VA Category Aquatic Life Use is impaired due to depressed DO concentrations. Impairment is suspected due to natural low velocity and high organic conditions present in these types of blackwater streams. Impairment does occur within area of town of Franklin and STP discharge zone. Below criteria minimum = 4.0 mg/l. PReP data indicates numerous sewage discharges in this and downstream segment.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed Source Unknown			

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Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Blackwater River		
TMDL Group ID:	00639		
VAT-K36R_BLW02B06	Blackwater River - Lower Middle	ISLE OF WIGHT CO SOUTHAMPTON CO	From RM 12.62 (downstream of Franklin, confluence of UT, parallel to Hayden High School) downstream to RM10.2 (Rt 58 Bypass crossing).
VA Overall AU Category: 5A Use	Impairment 4.26 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00639 2006 2010	Aquatic Life Use is impaired due to depressed DO concentrations. Impairment is suspected due to natural low velocity and high organic conditions present in these types of blackwater waters. Below criteria minimum = 4.0 mg/l. PReP data indicates numerous sewage discharges in this and upstream segment.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed Source Unknown			
VAT-K36R_BLW02C06	Blackwater River - Lower	ISLE OF WIGHT CO SOUTHAMPTON CO	From RM 10.2 (Rt 58 Bypass crossing) downstream to RM 3.36 (at Cherry Grove).
VA Overall AU Category: 5A Use	Impairment 7.41 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00639 2006 2010	Aquatic Life Use is impaired due to depressed DO concentrations. Impairment is suspected due to natural low velocity and high organic conditions present in these types of blackwater waters. Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed Source Unknown			
VAT-K36R_BLW02D06	Blackwater River - Mouth	ISLE OF WIGHT CO SOUTHAMPTON CO	Blackwater River from RM 3.35 (at Cherry Grove) downstream to VA/NC state line (RM 0.00) .
VA Overall AU Category: 5A Use	Impairment 3.80 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00639 2004 2010	Aquatic Life Use is impaired due to depressed DO concentrations. Impairment is suspected due to natural low velocity and high organic conditions present in these types of blackwater waters. Below criteria minimum = 4.0 mg/l
Sources: Municipal Point Source Discharges Natural Conditions - Water Quality Standards Use Attainability Analyses Needed Source Unknown			

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TMDL Watershed Name:	Blackwater River		
TMDL Group ID:	01566		
VAT-K33R_BLW02A04	Blackwater River - Lower	ISLE OF WIGHT CO SOUTH BOSTON CITY	Lower portion of Blackwater River within watershed, from Rt 460 bridge crossing, RM 40.22) downstream to boundary of watershed 0.22 miles downstream of confluence with Antioch Swamp (RM 35.22). Within VDH fish tissue Hg Advisory.
VA Overall AU Category: 5A	Impairment	8.10 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	01566	2004 2016 The Fish Consumption Use is impaired due to a VDH fish consumption advisory (Issued 10/29/03; modified 7/27/05 due to Hg contaminant in fish tissue data). Blackwater mainstem is included in the advisory stipulating no more than two meals/month of the following species: Largemouth Bass, Redear Sunfish, Bowfin, White Catfish, Redhorse Sucker and Longnose Gar.
Sources: Source Unknown			
VAT-K36R_BLW01A00	Blackwater River - Uppermost (PWS)	ISLE OF WIGHT CO SOUTHAMPTON CO	From start of watershed at RM 35.21 (downstream of confluence with Antioch Swamp) downstream to RM 27.84 (Aquaduct crossing SE of Burdette, end of PWS). PWS area for Norfolk intake.
VA Overall AU Category: 5A	Impairment	7.01 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	01566	2004 2016 The Fish Consumption Use is impaired due to a VDH fish consumption advisory (Issued 10/29/03; modified 7/27/05 due to Hg contaminant in fish tissue data). This advisory extends from State Rt 460 at Zuni downstream approximately 40 miles to the Virginia/North Carolina state line. Blackwater mainstem is included in the advisory stipulating no more than two meals/month of the following species: Largemouth Bass, Redear Sunfish, Bowfin, White Catfish, Redhorse Sucker and Longnose Gar.
Sources: Source Unknown			
VAT-K36R_BLW01B00	Blackwater River - Upper	ISLE OF WIGHT CO SOUTHAMPTON CO	From RM 27.84 (Aquaduct crossing SE of Burdette, end of PWS upstream) downstream to end of tidal influence, RM 22.84 (Rt 611, Joyner Br.) Outside (downstream) of PWS
VA Overall AU Category: 5A	Impairment	6.21 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	01566	2004 2016 The Fish Consumption Use is impaired due to a VDH fish consumption advisory (Issued 10/29/03; modified 7/27/05 due to Hg contaminant in fish tissue data). This advisory extends from State Rt 460 at Zuni downstream approximately 40 miles to the Virginia/North Carolina state line. The Blackwater River mainstem is included in the advisory, stipulating no more than two meals/month of the following species: Largemouth Bass, Redear Sunfish, Bowfin, White Catfish, Redhorse Sucker and Longnose Gar.
Sources: Source Unknown			

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TMDL Watershed Name:	Blackwater River		
TMDL Group ID:	01566		
VAT-K36R_BLW02A06	Blackwater River - Middle	ISLE OF WIGHT CO SOUTHAMPTON CO	From end of tidal influence, RM 22.80 (downstream of Rt 611, Joyner Br.) downstream to RM 12.62 (downstream of Franklin, confluence of UT, parallel to Hayden High School).
VA Overall AU Category: 5A	Impairment	9.77 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	01566	2004 2016 The Fish Consumption Use is impaired due to a VDH fish consumption advisory (Issued 10/29/03; modified 7/27/05 due to Hg contaminant in fish tissue data). This advisory extends from State Rt 460 at Zuni downstream approximately 40 miles to the Virginia/North Carolina state line. The Blackwater River mainstem is included in the advisory, stipulating no more than two meals/month of the following species: Largemouth Bass, Redear Sunfish, Bowfin, White Catfish, Redhorse Sucker and Longnose Gar.
Sources: Source Unknown			
VAT-K36R_BLW02B06	Blackwater River - Lower Middle	ISLE OF WIGHT CO SOUTHAMPTON CO	From RM 12.62 (downstream of Franklin, confluence of UT, parallel to Hayden High School) downstream to RM10.2 (Rt 58 Bypass crossing).
VA Overall AU Category: 5A	Impairment	4.26 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	01566	2006 2016 The Fish Consumption Use is impaired due to a VDH fish consumption advisory (Issued 10/29/03; modified 7/27/05 due to Hg contaminant in fish tissue data). This advisory extends from State Rt 460 at Zuni downstream approximately 40 miles to the Virginia/North Carolina state line. The Blackwater River mainstem is included in the advisory, stipulating no more than two meals/month of the following species: Largemouth Bass, Redear Sunfish, Bowfin, White Catfish, Redhorse Sucker and Longnose Gar.
Sources: Source Unknown			
VAT-K36R_BLW02C06	Blackwater River - Lower	ISLE OF WIGHT CO SOUTHAMPTON CO	From RM 10.2 (Rt 58 Bypass crossing) downstream to RM 3.36 (at Cherry Grove).
VA Overall AU Category: 5A	Impairment	7.41 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	01566	2006 2016 The Fish Consumption Use is impaired due to a VDH fish consumption advisory (Issued 10/29/03; modified 7/27/05 due to Hg contaminant in fish tissue data). This advisory extends from State Rt 460 at Zuni downstream approximately 40 miles to the Virginia/North Carolina state line. The Blackwater River mainstem is included in the advisory, stipulating no more than two meals/month of the following species: Largemouth Bass, Redear Sunfish, Bowfin, White Catfish, Redhorse Sucker and Longnose Gar.
Sources: Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Blackwater River		
TMDL Group ID:	01566		
VAT-K36R_B LW02D06	Blackwater River - Mouth	ISLE OF WIGHT CO SOUTHAMPTON CO	Blackwater River from RM 3.35 (at Cherry Grove) downstream to VA/NC state line (RM 0.00) .
VA Overall AU Category: 5A	Impairment	3.80 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	01566	2004 2016 VDH fish consumption advisory (Issued 10/29/03; modified 7/27/05 due to Hg contaminant in fish tissue data). This advisory extends from State Rt 460 at Zuni downstream approximately 40 miles to the Virginia/North Carolina state line.
Sources: Source Unknown			
TMDL Group ID:	10049		
VAP-K32R_B LW02B98	Blackwater River	SURRY CO SUSSEX CO	Route 31 to Cypress Swamp
VA Overall AU Category: 5A	Impairment	7.91 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue	10049	2006 2018 VAP-K32R-13
The Blackwater River from Route 31 near Dendron downstream to the Virginia-North Carolina state line is assessed as impaired of the Fish Consumption Use due to a VDH fish consumption advisory.			
Sources: Atmospheric Deposition - Toxics Source Unknown			
TMDL Watershed Name:	Blackwater River - Lower Middle		
TMDL Group ID:	76051		
VAT-K36R_B LW02B06	Blackwater River - Lower Middle	ISLE OF WIGHT CO SOUTHAMPTON CO	From RM 12.62 (downstream of Franklin, confluence of UT,parallel to Hayden High School) downstream to RM10.2 (Rt 58 Bypass crossing).
VA Overall AU Category: 5A	Impairment	4.26 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	76051	2006 2018 Exceedance indicated in three stations, with 2 violations in 14 observations. PReP data indicates numerous sewage discharges in this and upstream segment.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Blackwater River - Upper		
TMDL Group ID:	76049		
VAT-K33R_BLW01A00	Blackwater River - Upper	ISLE OF WIGHT CO SOUTHAMPTON CO	Upper portion of Blackwater R. in K33. Starts at upstream boundary of watershed (Rt 620 crossing near Walls Bridge, RM 57.2) downstream to above Rt 460 crossing @ Zuni (RM 40.23).
VA Overall AU Category: 5A	Impairment 19.12 MILES	TMDL Group ID 76049	First Listed on 303(d) 2006
Use		TMDL Schedule 2018	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue		The Fish Consumption Use is impaired due to a VDH fish consumption advisory (Issued 10/29/03; modified 7/27/05 due to Hg contaminant in fish tissue data). This advisory extends from State Rt 460 at Zuni downstream approximately 40 miles to the Virginia/North Carolina state line. The Blackwater River mainstem is included in the advisory, stipulating no more than two meals/month of
Sources: Source Unknown			
TMDL Group ID:	76052		
VAT-K36R_BLW01B00	Blackwater River - Upper	ISLE OF WIGHT CO SOUTHAMPTON CO	From RM 27.84 (Aquaduct crossing SE of Burdette, end of PWS upstream) downstream to end of tidal influence, RM 22.84 (Rt 611, Joyner Br.) Outside (downstream) of PWS
VA Overall AU Category: 5A	Impairment 6.21 MILES	TMDL Group ID 76052	First Listed on 303(d) 2006
Use		TMDL Schedule 2018	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli		
Sources: Source Unknown			
TMDL Watershed Name:	Blackwater River, Upper		
TMDL Group ID:	01551		
VAT-K33R_BLW01A00	Blackwater River - Upper	ISLE OF WIGHT CO SOUTHAMPTON CO	Upper portion of Blackwater R. in K33. Starts at upstream boundary of watershed (Rt 620 crossing near Walls Bridge, RM 57.2) downstream to above Rt 460 crossing @ Zuni (RM 40.23).
VA Overall AU Category: 5A	Impairment 19.12 MILES	TMDL Group ID 01551	First Listed on 303(d) 2002
Use		TMDL Schedule 2010	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Blackwater River, Upper		
TMDL Group ID:	01551		
VAT-K33R_BLW02A04	Blackwater River - Lower	ISLE OF WIGHT CO SOUTH BOSTON CITY	Lower portion of Blackwater River within watershed, from Rt 460 bridge crossing, RM 40.22) downstream to boundary of watershed 0.22 miles downstream of confluence with Antioch Swamp (RM 35.22). Within VDH fish tissue Hg Advisory.
VA Overall AU Category: 5A	Impairment 8.10 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01551 1996 2010	Aquatic Life Use is impaired due to depressed DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (5 violates / 40 obs. = 12.5%) does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Blackwater Swamp		
TMDL Group ID:	01366		
VAP-K31R_BKR01A98	Blackwater Swamp	PETERSBURG CITY SUSSEX CO	Headwaters to mouth.
VA Overall AU Category: 5A	Impairment 22.53 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01366 2006 2014	VAP-K31R-01
			An E. coli impairment was added in 2006, but the original fecal coliform TMDL due date is maintained.
Recreation	Fecal Coliform	01366 2002 2014	VAP-K31R-01
			An E. coli impairment was added in 2006, but the original fecal coliform TMDL due date is maintained.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Brantley Swamp, Lower		
TMDL Group ID:	01555		
VAT-K35R_BNT01A04	Brantley Swamp - Lower	SOUTHAMPTON CO	Located northeast of Pulleys Crossroads. Segment from confluence with Lightwood Swamp downstream to confluence with Seacock Swamp.
VA Overall AU Category: 5C	Impairment	3.52 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01555	2004 2016 Aquatic Life Use is impaired due to depressed DO & pH concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (6 violates / 12 obs.) does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	01556		
VAT-K35R_BNT01A04	Brantley Swamp - Lower	SOUTHAMPTON CO	Located northeast of Pulleys Crossroads. Segment from confluence with Lightwood Swamp downstream to confluence with Seacock Swamp.
VA Overall AU Category: 5C	Impairment	3.52 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01556	2004 2016 Aquatic Life Use is impaired due to depressed pH concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (6 violates / 12 obs.) does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. Below pH minimum criteria = 6.0 SU.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Briery Branch		
TMDL Group ID:	01308		
VAP-K05R_BRY01A02	Briery Branch	BRUNSWICK CO	Headwaters to mouth
VA Overall AU Category: 5A	Impairment	4.00 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01308	2004 2016 VAP-K05R-03
The segment was assessed in 2004 as not supporting of the Recreation use support goal based on a fecal coliform violation rate of 4/12 at 5A-PL-GR-B, a Confined Animal Feeding Operation special study station.			
There has been no additional sampling since 2000, therefore the impairment has been carried over into the 2006 cycle.			
Sources: Animal Feeding Operations (NPS) Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Broad Branch		
TMDL Group ID:	50104		
VAC-K03R_BRD01A06	Broad Branch	LUNENBERG CO	From its headwaters to the mouth
VA Overall AU Category: 5A	Impairment	3.48 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	50104	2006 2018
	Sources: Source Unknown		
Brunswick Lake (County Pond)			
TMDL Watershed Name:	Brunswick Lake (County Pond)		
TMDL Group ID:	10006		
VAP-K08L_RDC01A98	Brunswick Lake (County Pond)	BRUNSWICK CO	VDGIF lake on Reedy Creek.
VA Overall AU Category: 5A	Impairment	150.00 ACRES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	10006	2006 2018
			VAP-K08L-02
			Brunswick Lake was assessed as not supporting the Aquatic Life Use due to pH violations and low dissolved oxygen in bottom waters. The low DO only occurred during periods of stratification, however the TSIs for the lake were above 60:
			TSI(TP) = 64 TSI(CA) = 69 TSI(SD) = 66
			Therefore the low dissolved oxygen in considered to be exacerbated by excessive nutrients and a TMDL is required. In addition, both total phosphorus and chlorophyll a are considered observed effects b/c of screening level exceedances. The lake should be reevaluated once nutrient criteria are established. New impairment 2006
	Sources: Source Unknown		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Brunswick Lake (County Pond)		
TMDL Group ID:	10007		
VAP-K08L_RDC01A98	Brunswick Lake (County Pond)	BRUNSWICK CO	VDGIF lake on Reedy Creek.
VA Overall AU Category: 5A			
Use	Impairment	150.00 ACRES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	10007	2006 2018 VAP-K08L-02
			<p>Brunswick Lake was assessed as not supporting the Aquatic Life Use due to pH violations and low dissolved oxygen in bottom waters. The low DO only occurred during periods of stratification, however the TSIs for the lake were above 60:</p> <p>TSI(TP) = 64 TSI(CA) = 69 TSI(SD) = 66</p> <p>Therefore the low dissolved oxygen in considered to be exacerbated by excessive nutrients and a TMDL is required. In addition, both total phosphorus and chlorophyll a are considered observed effects b/c of screening level exceedances. The lake should be reevaluated once nutrient criteria are established.</p> <p>New impairment in 2006</p>
Sources: Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia			
TMDL Watershed Name:	Buckhorn Creek		
TMDL Group ID:	00670		
VAT-K37R_XDN01A00	Buckhorn Creek	SOUTHAMPTON CO	All of Northern Branch of Buckhorn Creek (within Virginia).
VA Overall AU Category: 5C			
Use	Impairment	1.98 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	00670	1998 2010
			<p>No data was collected within this watershed during the current assessment period (1/1/2000 thru 12/31/2004). Aquatic Life Use impaired due to depressed pH & DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters.</p> <p>Below pH minimum criteria = 6.0 SU.</p>
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Buckhorn Creek		
TMDL Group ID:	01742		
VAT-K37R_XDN01A00	Buckhorn Creek	SOUTHAMPTON CO	All of Northern Branch of Buckhorn Creek (within Virginia).
VA Overall AU Category: 5C	Impairment	1.98 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01742	1998 2010 No data was collected within this watershed during the current assessment period (1/1/2000 thru 12/31/2004). Aquatic Life Use impaired due to depressed pH & DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. Below criteria minimum = 4.0 mg/l.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Buckskin Creek		
TMDL Group ID:	01339		
VAP-K19R_BSK01A00	Buckskin Creek	DINWIDDIE CO	Headwaters to mouth.
VA Overall AU Category: 5A	Impairment	11.86 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01339	2004 2016 VAP-K19R-03
Sources: Source Unknown			
TMDL Watershed Name:	Carys Creek		
TMDL Group ID:	50105		
VAC-K15R_CRY01A06	Carys Creek	NOTTOWAY CO	Carys Creek from its headwaters to the mouth
VA Overall AU Category: 5A	Impairment	6.06 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	50105	2006 2018
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Cattail Creek		
TMDL Group ID:	01319		
VAP-K11R_CTT01A02	Cattail Creek	GREENSVILLE CO	Headwaters to Collier Branch
VA Overall AU Category: 5A	Impairment	6.42 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01319 2002 2014	VAP-K11R-03 The segment was assessed in 2004 as not supporting the Aquatic Life Use because of violations at two locations. The TMDLs are due in 2014. The violation rates were: pH 4/16 at the Rt. 633 bridge (5ACTT005.89/PL-15A); DO 3/16, pH 4/16 at the Route 632 bridge (5ACTT002.73/PL-15B) These stations are confined animal feeding operation (CAFO) special study stations. Because monitoring has not occurred since 2002, the 2004 assessment was carried over to 2006.
Sources: Source Unknown			
TMDL Group ID:	01320		
VAP-K11R_CTT01A02	Cattail Creek	GREENSVILLE CO	Headwaters to Collier Branch
VA Overall AU Category: 5A	Impairment	6.42 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01320 2004 2016	VAP-K11R-03 Beginning in the 2004 cycle, the segment was also assessed as not supporting of the Recreation Use goal based on a fecal coliform violation rate of 3/17 and 5/17 at 5ACTT005.89 and 5ACTT002.73, respectively. The TMDL is due in 2016. These stations are confined animal feeding operation (CAFO) special study stations. Because monitoring has not occurred since 2002, the 2004 assessment was carried over to 2006.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Cattail Creek		
TMDL Group ID:	01321		
VAP-K11R_CTT01A02	Cattail Creek	GREENSVILLE CO	Headwaters to Collier Branch
VA Overall AU Category: 5A	Impairment 6.42 MILES	TMDL Group ID 01321	First Listed on 303(d) 2002
Use Aquatic Life	Oxygen, Dissolved	TMDL Schedule 2014	Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-K11R-03
			The segment was assessed in 2004 as not supporting the Aquatic Life Use because of violations at two locations. The TMDLs are due in 2014.
			The violation rates were: pH 4/16 at the Rt. 633 bridge (5ACTT005.89/PL-15A); DO 3/16, pH 4/16 at the Route 632 bridge (5ACTT002.73/PL-15B)
			These stations are confined animal feeding operation (CAFO) special study stations.
			Because monitoring has not occurred since 2002, the 2004 assessment was carried over to 2006.
	Sources: Source Unknown		
TMDL Watershed Name:	Chapel Swamp		
TMDL Group ID:	01568		
VAT-K38R_CHP01A04	Chapel Swamp	SUFFOLK CITY	Northern tributary of Somerton Creek. Located east of Cleopus.
VA Overall AU Category: 5C	Impairment 8.19 MILES	TMDL Group ID 01568	First Listed on 303(d) 2004
Use Aquatic Life	Oxygen, Dissolved	TMDL Schedule 2016	Impairment Specific Comments and/or Impairment Specific VA Category
			Aquatic Life Use impaired due to depressed pH & DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data does not meet previous criteria (4/9) applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters.
			Below criteria minimum = 4.0 mg/l.
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Chapel Swamp		
TMDL Group ID:	01569		
VAT-K38R_CHP01A04	Chapel Swamp	SUFFOLK CITY	Northern tributary of Somerton Creek. Located east of Cleopus.
VA Overall AU Category: 5C	Impairment	8.19 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01569 2004 2016	Aquatic Life Use impaired due to depressed pH concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data does not meet previous criteria (4/9) applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. Below pH minimum criteria = 6.0 SU.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
Coppahaunk Swamp			
TMDL Watershed Name:	Coppahaunk Swamp		
TMDL Group ID:	01372		
VAP-K32R_CPH01A98	Coppahaunk Swamp	SUSSEX CO	Headwaters to mouth at Blackwater River.
VA Overall AU Category: 5A	Impairment	12.49 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01372 2006 2014	VAP-K32R-05 E. coli impairment added in 2006, but original FC TMDL due date was maintained.
Recreation	Fecal Coliform	01372 2002 2014	VAP-K32R-05 E. coli impairment added in 2006 with violation rate of 2/2 at 5AXDT000.50, but original FC TMDL due date maintained.
Sources: Source Unknown			
Darden Mill Run			
TMDL Watershed Name:	Darden Mill Run		
TMDL Group ID:	01547		
VAT-K30R_DMR01A02	Darden Mill Run	SOUTHAMPTON CO	From headwaters near Newsoms downstream to Windbourne Millpond, near VA/NC state line.
VA Overall AU Category: 5A	Impairment	10.42 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01547 2002 2014	Aquatic Life Use is impaired due to depressed DO & pH concentrations below the criteria minimum. Impairment is suspected due to natural swamp conditions present in these waters, low flow and high organic content. Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Darden Mill Run		
TMDL Group ID:	01548		
VAT-K30R_DMR01A02	Darden Mill Run	SOUTHAMPTON CO	From headwaters near Newsoms downstream to Windbourne Millpond, near VA/NC state line.
VA Overall AU Category: 5A	Impairment	10.42 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01548	2002 2016 Aquatic Life Use is impaired due to depressed DO & pH concentrations below the criteria minimum. Impairment is suspected due to natural swamp conditions present in these waters, low flow and high organic content. Below pH minimum criteria = 6.0 SU
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	01549		
VAT-K30R_DMR01A02	Darden Mill Run	SOUTHAMPTON CO	From headwaters near Newsoms downstream to Windbourne Millpond, near VA/NC state line.
VA Overall AU Category: 5A	Impairment	10.42 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01549	2002 2016 The Recreation Use is impaired due to bacteria exceedances of the criteria for Ecoli. Previous impairment based on fecal coliform is replaced by new standard for Ecoli effective with attainment of observation minimum (4 violates / 13 observations). TMDL due date retained per H. Augustine e-mail 2/6/06.
Sources: Source Unknown			
TMDL Watershed Name:	Dismal Swamp Canal		
TMDL Group ID:	00672		
VAT-K39R_XCK01A00	Dismal Swamp Canal & Feeder Ditch to Lake Drummond	CHESAPEAKE CITY	Dismal Swamp Canal from Deep Creek Locks to VA/NC state line and including Feeder Ditch to Lake Drummond.
VA Overall AU Category: 5A	Impairment	14.71 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	00672	1998 2010 Below pH minimum criteria = 6.0 SU
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Dismal Swamp Canal		
TMDL Group ID:	01567		
VAT-K39R_XCK01A00	Dismal Swamp Canal & Feeder Ditch to Lake Drummond	CHESAPEAKE CITY	Dismal Swamp Canal from Deep Creek Locks to VA/NC state line and including Feeder Ditch to Lake Drummond.
VA Overall AU Category: 5A	Impairment 14.71 MILES	TMDL Group ID 01567	First Listed on 303(d) 2004
Use		TMDL Schedule 2016	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Mercury in Fish Tissue		DEQ 2002 Fish Tissue sampling indicated Hg at station 5BXCK000.00. The Fish Consumption Use is impaired due to a VDH fish consumption advisory (issued 10/2003 due to total Hg reported in DEQ fish tissue samples) from Deep Creek to NC state line.
Sources: Source Unknown			
TMDL Group ID:	01572		
VAT-K39R_XCK01A00	Dismal Swamp Canal & Feeder Ditch to Lake Drummond	CHESAPEAKE CITY	Dismal Swamp Canal from Deep Creek Locks to VA/NC state line and including Feeder Ditch to Lake Drummond.
VA Overall AU Category: 5A	Impairment 14.71 MILES	TMDL Group ID 01572	First Listed on 303(d) 1998
Use		TMDL Schedule 2016	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Emporia Lake (Meherrin Reservoir)		
TMDL Group ID:	01313		
VAP-K08L_MHN02C98	Emporia Lake (Meherrin Reservoir)	GREENSVILLE CO	On Meherrin River in Emporia
VA Overall AU Category: 5A	Impairment 210.00 ACRES	TMDL Group ID 01313	First Listed on 303(d) 2006
Use		TMDL Schedule 2016	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		VAP-K08L-01
Dissolved oxygen violations in bottom waters during the summer months. The violation rate was 2/19 during periods where the temperature differential was <4°C, therefore the lake is considered impaired and needing a TMDL. The lake should be reassessed once nutrient WQS are developed.			
The phosphorus and chlorophyll Trophic State Indices were less than 60. The secchi TSI was considerably larger than the others, therefore it is believed that the high Secchi TSI is a result of a prevalence of inorganic matter and is not considered.			
Sources: Changes in Ordinary Stratification and Bottom Water Hypoxia/Anoxia			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:		Flat Rock Creek	
TMDL Group ID:		00696	
VAC-K03R_FRC01A98	Flat Rock Creek	LUNENBERG CO	First confluence downstream of Rte 647 to mouth.
VA Overall AU Category: 5A	Impairment	9.72 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Fecal Coliform	00696	2002 2010
Sources: Source Unknown			
TMDL Group ID:		50103	
VAC-K03R_FRC02A06	Flat Rock Creek	LUNENBERG CO	Route 652 (RM 14.7) to Kenbridge PWS intake just upstream of Route 637.
VA Overall AU Category: 5A	Impairment	1.66 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Escherichia coli	50103	2006 2018
Sources: Source Unknown			
TMDL Watershed Name:		Flat Swamp	
TMDL Group ID:		01541	
VAT-K13R_FTS01A04	Flat Swamp	SOUTHAMPTON CO	North of White Head Hall. Downstream of Bellyache Swamp and confluence with Frank's Branch and upstream (a tributary of) Tarrara Creek.
VA Overall AU Category: 5A	Impairment	6.30 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Fecal Coliform	01541	2004 2016
Sources: Source Unknown			
TMDL Group ID:		01542	
VAT-K13R_FTS01A04	Flat Swamp	SOUTHAMPTON CO	North of White Head Hall. Downstream of Bellyache Swamp and confluence with Frank's Branch and upstream (a tributary of) Tarrara Creek.
VA Overall AU Category: 5A	Impairment	6.30 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Aquatic Life	Oxygen, Dissolved	01542	2004 2016
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Flat Swamp		
TMDL Group ID:	01543		
VAT-K13R_FTS01A04	Flat Swamp	SOUTHAMPTON CO	North of White Head Hall. Downstream of Bellyache Swamp and confluence with Frank's Branch and upstream (a tributary of) Tarrara Creek.
VA Overall AU Category: 5A	Impairment	6.30 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01543	2004 2016 pH impairment continued from 2004 IR. Segment has changed Class to VII (prev. III) and current pH criteria not as restrictive (4.3 - 9.0 SU). Meets current criteria, but compared to previous criteria (criteria 6.0 - 9.0 SU) segment still not meet (not able to delist pH).
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Fontaine Creek		
TMDL Group ID:	00680		
VAP-K11R_FON04A00	Fontaine Creek	GREENSVILLE CO	Route 301 bridge to the Meherrin River in K12
			Segment altered in 2006 to incorporate VAP-K12R_FON05A00 and VAP-K12R_FON06A00, which were deleted, and to align with the new Class VII designations.
VA Overall AU Category: 5A	Impairment	15.92 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00680	2002 2010 VAP-K11R-02
In 1998, Fontaine Creek from Beaverdam Creek to its mouth at the Meherrin River was assessed not supporting of the Aquatic Life use support goal because of dissolved oxygen violations. All tributaries entering this segment were considered fully supporting but threatened. The DO TMDL for the mainstem is due in 2010.			
During the year 2002 cycle, pH was added as an impairing cause and the tributaries were added to the segment. The TMDL is due in 2014.			
During the year 2006 cycle, the segment was reassessed against the new Class VII swampwater criteria. The segment continues to show dissolved oxygen violations, but the segment conforms with the new pH criteria. The segment should be delisted for pH. The segment will be considered Category 4C for dissolved oxygen until the new criteria can be developed.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Fontaine Creek		
TMDL Group ID:	01317		
VAP-K10R_FON01A04	Fontaine Creek	GREENSVILLE CO	Fontaine Creek from the confluence of Rattlesnake Creek to the end of the watershed at Rocky Run.
VA Overall AU Category: 5A	Impairment	5.04 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01317 2004 2016	VAP-K09R-02
The segment was assessed not supporting of the Recreation use support goal based on a fecal coliform violation rate of 2/13 at the Route 603 bridge (5AFON037.89).			
Sources: Source Unknown			
TMDL Group ID:	01322		
VAP-K11R_FON01A02	Fontaine Creek	GREENSVILLE CO	Route 633 bridge to tributary upstream of Mitchell.
VA Overall AU Category: 5A	Impairment	9.89 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01322 2002 2014	VAP-K11R-01
The segment was assessed as not supporting of the Recreation and Aquatic Life use goals based on the following violation rates in 2004:			
Fecal coliform 4/24 at the Rt. 639 bridge (5AFON025.64)			
Fecal coliform 3/18 at the Rt. 627 bridge (5AFON027.33)			
Dissolved oxygen 3/16 at 5AFON027.33			
These stations were confined animal feeding operation (CAFO) special study stations and ceased in 2002.			
During the 2006 cycle, the stations remain impaired for fecal coliform.			
Sources: Source Unknown			
VAP-K11R_FON03A98	Fontaine Creek	GREENSVILLE CO	First confluence upstream of Mitchell to the Route 301 bridge. Segment extended in 2006 to align with new Class VII swampwater designation.
VA Overall AU Category: 5A	Impairment	10.44 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01322 2004 2016	VAP-K11R-04
In the 2004 cycle, the segment was assessed as not supporting the Recreation Use and Aquatic Life use support goals based on fecal coliform and pH violation rates of 2/14 at 5AFON022.04, located at the Route 629 bridge. Because there has been no additional monitoring since 2000, the previous assessment is carried over to 2006. In 2006, the segment was extended to the Route 301 bridge to better coincide with the Class VII designation.			
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Fontaine Creek		
TMDL Group ID:	01322		
VAP-K11R_FON04A00	Fontaine Creek	GREENSVILLE CO	Route 301 bridge to the Meherrin River in K12 Segment altered in 2006 to incorporate VAP-K12R_FON05A00 and VAP-K12R_FON06A00, which were deleted, and to align with the new Class VII designations.
VA Overall AU Category: 5A	Impairment 15.92 MILES	TMDL Group ID	First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01322	2006 2014 VAP-K12R-01 In 2002 the segment of Fontaine Creek from Mill Creek to the Meherrin River was assessed not supporting of the Recreation Use based on fecal coliform violations at the Route 625 bridge (5AFON006.07). During the year 2006 cycle, the segment was amended from the Route 301 bridge to the Meherrin River and E. coli was added as an impairment. The violation rates in 2006 at 5AFON006.07 were: Fecal Coliform 1/8 E. coli 4/9
Recreation	Fecal Coliform	Sources: Source Unknown 01322	2006 2014 VAP-K12R-01 In 2002 the segment of Fontaine Creek from Mill Creek to the Meherrin River was assessed not supporting of the Recreation Use based on fecal coliform violations at the Route 625 bridge (5AFON006.07). During the year 2006 cycle, the segment was amended from the Route 301 bridge to the Meherrin River and E. coli was added as an impairment. The violation rates in 2006 at 5AFON006.07 were: Fecal Coliform 1/8 E. coli 4/9
		Sources: Source Unknown	
TMDL Group ID:	01325		
VAP-K11R_FON03A98	Fontaine Creek	GREENSVILLE CO	First confluence upstream of Mitchell to the Route 301 bridge. Segment extended in 2006 to align with new Class VII swampwater designation.
VA Overall AU Category: 5A	Impairment 10.44 MILES	TMDL Group ID	First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01325	2004 2016 VAP-K11R-04 In the 2004 cycle, the segment was assessed as not supporting the Recreation Use and Aquatic Life use support goals based on fecal coliform and pH violation rates of 2/14 at 5AFON022.04, located at the Route 629 bridge. Because there has been no additional monitoring since 2000, the previous assessment is carried over to 2006. In 2006, the segment was extended to the Route 301 bridge to better coincide with the Class VII designation.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Fort Pickett Reservoir		
TMDL Group ID:	00746		
VAC-K16L_NTW01L04	Fort Pickett Reservoir	BRUNSWICK CO NOTTOWAY CO	Fort Pickett Reservoir
VA Overall AU Category: 5A	Impairment	318.95 ACRES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00746	2004 2016
Sources: Source Unknown			
TMDL Watershed Name:	Genito Creek		
TMDL Group ID:	10005		
VAP-K05R_GTO01A94	Genito Creek	BRUNSWICK CO	Headwaters to mouth.
VA Overall AU Category: 5A	Impairment	7.92 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	10005	2006 2016 VAP-K05R-01
Sources: Source Unknown			
TMDL Watershed Name:	Great Creek		
TMDL Group ID:	01311		
VAP-K06R_GTC01A00	Great Creek	LUNENBERG CO	Upstream of Dixon Millpond, including the pond.
VA Overall AU Category: 5A	Impairment	2.78 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01311	2004 2016 VAP-K06R-02
Sources: Source Unknown			
<p>During the year 2006 cycle, the bacteria impairments (VAP-K06R-01, -02, and -03) in Great Creek were combined. The segment has been assessed as not supporting of the Recreation Use goal based on fecal coliform violations at 5AXEA000.04, 5A-PL-GR-A, and 5AGTC005.40, and E. coli violations at 5AGTC017.75.</p> <p>5AXEA000.04 and 5A-PL-GR-A are confined animal feeding operation (CAFO) special study stations that were discontinued in 2002, therefore the 2004 violation rate was applied.</p>			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Great Creek		
TMDL Group ID:	01311		
VAP-K06R_GTC01B00	Great Creek	BRUNSWICK CO LUNENBERG CO	Dixon Millpond dam to upstream extent of PWS Section 5a-3b. Expanded in 2006 cycle.
VA Overall AU Category: 5A	Impairment	9.07 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01311 2006 2014	VAP-K06R-02 During the year 2006 cycle, the bacteria impairments (VAP-K06R-01, -02, and -03) in Great Creek were combined. The segment has been assessed as not supporting of the Recreation Use goal based on fecal coliform violations at 5AXEA000.04, 5A-PL-GR-A, and 5AGTC005.40, and E. coli violations at 5AGTC017.75. 5AXEA000.04 and 5A-PL-GR-A are confined animal feeding operation (CAFO) special study stations that were discontinued in 2002, therefore the 2004 violation rate was applied.
Recreation	Fecal Coliform	Sources: Source Unknown 01311 2002 2014	VAP-K06R-02 During the year 2006 cycle, the bacteria impairments (VAP-K06R-01, -02, and -03) in Great Creek were combined. The segment has been assessed as not supporting of the Recreation Use goal based on fecal coliform violations at 5AXEA000.04, 5A-PL-GR-A, and 5AGTC005.40, and E. coli violations at 5AGTC017.75. 5AXEA000.04 and 5A-PL-GR-A are confined animal feeding operation (CAFO) special study stations that were discontinued in 2002, therefore the 2004 violation rate was applied.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Great Creek		
TMDL Group ID:	01311		
VAP-K06R_GTC02B00	Great Creek	BRUNSWICK CO	Upstream extent of PWS Section 5a-3b to extent of backwater at Great Creek Reservoir.
VA Overall AU Category: 5A	Impairment	2.75 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01311	2006 2014 VAP-K06R-02
			During the year 2006 cycle, the bacteria impairments (VAP-K06R-01, -02, and -03) in Great Creek were combined. The segment has been assessed as not supporting of the Recreation Use goal based on fecal coliform violations at 5AXEA000.04, 5A-PL-GR-A, and 5AGTC005.40, and E. coli violations at 5AGTC017.75.
			5AXEA000.04 and 5A-PL-GR-A are confined animal feeding operation (CAFO) special study stations that were discontinued in 2002, therefore the 2004 violation rate was applied.
Recreation	Fecal Coliform	Sources: Source Unknown 01311	2002 2014 VAP-K06R-02
			During the year 2006 cycle, the bacteria impairments (VAP-K06R-01, -02, and -03) in Great Creek were combined. The segment has been assessed as not supporting of the Recreation Use goal based on fecal coliform violations at 5AXEA000.04, 5A-PL-GR-A, and 5AGTC005.40, and E. coli violations at 5AGTC017.75.
			5AXEA000.04 and 5A-PL-GR-A are confined animal feeding operation (CAFO) special study stations that were discontinued in 2002, therefore the 2004 violation rate was applied.
		Sources: Source Unknown	
TMDL Group ID:	01312		
VAP-K06R_GTC01A00	Great Creek	LUNENBERG CO	Upstream of Dixon Millpond, including the pond.
VA Overall AU Category: 5A	Impairment	2.78 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01312	2002 2014 VAP-K06R-02
			The segment of Great Creek above the Dixon Millpond dam was assessed in 2002 as not supporting of the Aquatic Life Use based on pH violations at 5AGTC025.70 (previously called PL-18A), and at 5AXEA000.04 (previously called PL-18B). In 2004, the segment continued to be impaired due to pH and an impairment for dissolved oxygen was added. The pH TMDL is due in 2014 and the DO TMDL is due in 2016. No additional monitoring has occurred since 2002, therefore the previous assessment remains.
			These stations are confined animal feeding operation (CAFO) special study stations.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Great Creek		
TMDL Group ID:	01740		
VAP-K06R_GTC01A00	Great Creek	LUNENBERG CO	Upstream of Dixon Millpond, including the pond.
VA Overall AU Category: 5A	Impairment	2.78 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01740	2004 2016 VAP-K06R-01
			The segment of Great Creek above the Dixon Millpond dam was assessed in 2002 as not supporting of the Aquatic Life Use based on pH violations at 5AGTC025.70 (previously called PL-18A), and at 5AXEA000.04 (previously called PL-18B). In 2004, the segment continued to be impaired due to pH and an impairment for dissolved oxygen was added. The pH TMDL is due in 2014 and the DO TMDL is due in 2016. No additional monitoring has occurred since 2002, therefore the previous assessment remains.
			These stations are confined animal feeding operation (CAFO) special study stations.
Sources: Source Unknown			
TMDL Group ID:	01746		
VAP-K06R_GTC04B00	Great Creek	BRUNSWICK CO	Great Creek Reservoir dam to the Lawrenceville PWS intake (PWS Section 5a-3b).
VA Overall AU Category: 5A	Impairment	2.72 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01746	2004 2016 VAP-K06R-02
			During the year 2006 cycle, the bacteria impairments (VAP-K06R-01, -02, and -03) in Great Creek were combined. The segment has been assessed as not supporting of the Recreation Use goal based on fecal coliform violations at 5AXEA000.04, 5A-PL-GR-A, and 5AGTC005.40, and E. coli violations at 5AGTC017.75.
			5AXEA000.04 and 5A-PL-GR-A are confined animal feeding operation (CAFO) special study stations that were discontinued in 2002, therefore the 2004 violation rate was applied.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Great Creek		
TMDL Group ID:	01746		
VAP-K06R_GTC05B00	Great Creek	BRUNSWICK CO	Lawrenceville PWS intake to its mouth.
VA Overall AU Category: 5A	Impairment	7.31 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01746 2004 2016	VAP-K06R-02
<p>During the year 2006 cycle, the bacteria impairments (VAP-K06R-01, -02, and -03) in Great Creek were combined. The segment has been assessed as not supporting of the Recreation Use goal based on fecal coliform violations at 5AXEA000.04, 5A-PL-GR-A, and 5AGTC005.40, and E. coli violations at 5AGTC017.75.</p> <p>5AXEA000.04 and 5A-PL-GR-A are confined animal feeding operation (CAFO) special study stations that were discontinued in 2002, therefore the 2004 violation rate was applied.</p>			
Sources: Source Unknown			
TMDL Watershed Name:	Harris Swamp		
TMDL Group ID:	10120		
VAP-K19R_HRS01A02	Harris Swamp	SUSSEX CO	Harris Swamp from the first tributary upstream of Little Mill Road to its mouth at the Nottoway River.
VA Overall AU Category: 5C	Impairment	2.34 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	10120 2006 2018	VAP-K19R-01
<p>The segment was assessed as impaired of the Aquatic Life Use because of a pH violation rate of 3/21 at 5AHR002.04.</p>			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Hatcher Run		
TMDL Group ID:	01349		
VAP-K23R_HRA01A04	Hatcher Run	DINWIDDIE CO	Hatcher Run from its headwaters to the pond below 627.
VA Overall AU Category: 5A	Impairment	4.38 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01349 2004 2016	VAP-K23R-05
<p>This segment of Hatcher Run is considered not supporting the Recreation Use based on a fecal coliform violation rate of 2/3 during the 2004 cycle at the USGS monitoring station at the Route 627 bridge (02046265).</p>			
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Hell Point Creek - Upper		
TMDL Group ID:	76067		
VAT-K42E_HPC01A00	Hell Point Creek - Upper	VIRGINIA BEACH CITY	Located west of Sandbridge. Segment from headwaters downstream to RM 0.73, intersection of creek with canal near mouth.
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Enterococcus	76067	2006 2018
	Sources: Source Unknown		
TMDL Watershed Name:	Hell Point Creek, Lower (At Mouth)		
TMDL Group ID:	01581		
VAT-K42E_HPC02A04	Hell Point Creek - Lower (at mouth)	VIRGINIA BEACH CITY	Located southwest of Sandbridge. Segment begins at intersection of creek and canal upstream of monitoring station and ends at mouth, confluence with North Bay.
VA Overall AU Category: 5A	Impairment	0.03 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Enterococcus	01581	2004 2016
	Sources: Source Unknown		Insufficient # samples (9) to replace FC parameter.
Use Recreation	Fecal Coliform	01581	2004 2016
	Sources: Source Unknown		Insufficient # Enterococcus samples (9) to replace FC parameter.
TMDL Watershed Name:	Horsepen Branch		
TMDL Group ID:	10008		
VAP-K22R_HSP01A00	Horsepen Branch	DINWIDDIE CO	Headwaters to Mill Run Branch
VA Overall AU Category: 5A	Impairment	3.91 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Aquatic Life	Oxygen, Dissolved	10008	2006 2018
	Sources: Source Unknown		VAP-K22R-02
			Horsepen Branch is assessed as not supporting the Aquatic Life Use due to a dissolved oxygen violation rate of 4/18 at the Route 619 bridge (5AHSP000.38).

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Hunting Quarter Swamp		
TMDL Group ID:	01354		
VAP-K24R_HQC01A98	Hunting Quarter Swamp	SUSSEX CO	Headwaters to mouth
VA Overall AU Category: 5C	Impairment	16.55 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01354	2004 2016 VAP-K24R-01
<p>Hunting Quarter Swamp had been assessed as fully supporting but threatened of the Aquatic Life Use since the 1998 cycle based on best professional judgment. Because of its hydrological characteristics, Hunting Quarter Swamp was believed to be subject to the same dissolved oxygen and pH characteristics as other swampwaters assessed as less than fully supporting of its use support goal.</p> <p>Sampling in the 2004 cycle confirmed the pH violations (2/2), therefore the segment was downgraded to impaired. Although the DO violation rate was acceptable (0/2), the samples were taken in the winter months and therefore dissolved oxygen was still added as an impairing cause based on BPJ.</p> <p>However, during the 2006 cycle, additional monitoring was conducted. This confirmed the pH violations (5/5), but the DO violation rate was acceptable (0/5). The segment should be delisted for dissolved oxygen.</p>			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Hurricane Branch		
TMDL Group ID:	00747		
VAC-K16R_HUR01A04	Hurricane Branch	NOTTOWAY CO	Hurricane Branch from Gettysburg Road crossing to its confluence with Nottoway River
VA Overall AU Category: 5A	Impairment	1.94 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00747	2004 2016
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Indian Creek tributary to Northwest River		
TMDL Group ID:	00263		
VAT-K40R_IND01A02	Indian Creek tributary to Northwest River.	CHESAPEAKE CITY	From downstream of Sanderson Rd.(RM 3.40) downstream to the confluence with the Northwest River. Located southeast of Saint Brides.
VA Overall AU Category: 5A	Impairment 3.48 MILES	TMDL Group ID 00263	First Listed on 303(d) 2002
Use Aquatic Life	Oxygen, Dissolved	TMDL Schedule 2010	Impairment Specific Comments and/or Impairment Specific VA Category
			Combination of probable natural low D.O. due swamp waters & possible urban development causing phosphorus/low DO. Below criteria minimum = 4.0 mg/l.
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed		
	Source Unknown		
TMDL Group ID:	01573		
VAT-K40R_IND01A02	Indian Creek tributary to Northwest River.	CHESAPEAKE CITY	From downstream of Sanderson Rd.(RM 3.40) downstream to the confluence with the Northwest River. Located southeast of Saint Brides.
VA Overall AU Category: 5A	Impairment 3.48 MILES	TMDL Group ID 01573	First Listed on 303(d) 2006
Use Recreation	Escherichia coli	TMDL Schedule 2016	Impairment Specific Comments and/or Impairment Specific VA Category
			Recreation Use impaired (3 violates / 13 observations) due to Ecoli concentrations exceeding the swimming indicator criteria.
	Sources: Source Unknown		
TMDL Watershed Name:	Lake Drummond		
TMDL Group ID:	76054		
VAT-K39L_LKD01A06	Lake Drummond	CHESAPEAKE CITY SUFFOLK CITY	Within the Great Dismal Swamp National Wildlife Refuge. Located on City of Suffolk/City of Chesapeake boundary near NC state line.
VA Overall AU Category: 5A	Impairment 3242.00 ACRES	TMDL Group ID 76054	First Listed on 303(d) 2006
Use Fish Consumption	Mercury in Fish Tissue	TMDL Schedule 2018	Impairment Specific Comments and/or Impairment Specific VA Category
			The Fish Consumption Use is impaired due to a VDH fish consumption advisory (issued 10/2003 & modified 7/27/05) due to total Hg reported in fish tissue samples) .
	Sources: Source Unknown		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Meherrin River		
TMDL Group ID:	00593		
VAP-K09R_MHN01D98	Meherrin River	EMPORIA CITY	Emporia Reservoir Dam to the Route 730 bridge Segment extended in 2006
VA Overall AU Category: 5A Use	Impairment 26.62 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	PCB in Fish Tissue	00593 2004 2016	VAP-K09R-01 During the year 2004 cycle, PCBs in fish tissue was added as an impairing cause and Mercury in fish tissue was added as an observed effect. During the 2006 cycle, VDH issued a fish consumption advisory for PCBs from the Emporia dam to the Route 730 bridge. The segment was extended to match the advisory. The TMDL due date for PCBs remains 2014.
Sources: Source Unknown			
TMDL Group ID:	01309		
VAP-K05R_MHN01B98	Meherrin River	BRUNSWICK CO	Taylors Creek to Hicks Creek.
VA Overall AU Category: 5A Use	Impairment 6.93 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01309 2006 2018	VAP-K05R-02 The Meherrin River from Taylors Creek to Reedy Creek was assessed not supporting of the Recreation use support goal based on fecal coliform violation rates of 4/20 at 5AMHN068.30, 2/16 at 5AMHN073.98, and 8/35 at 5AMHN082.13 and an E. coli violation rate of 2/9 at 5AMHN082.13. The segment was originally considered fully supporting but threatened during the year 1998 cycle, but was downgraded during the 2002 cycle. The E. coli impairment was added during the 2006 cycle.
Sources: Source Unknown			
Recreation	Fecal Coliform	01309 2002 2014	VAP-K05R-02 The Meherrin River from Taylors Creek to Reedy Creek was assessed not supporting of the Recreation use support goal based on fecal coliform violation rates of 4/20 at 5AMHN068.30, 2/16 at 5AMHN073.98, and 8/35 at 5AMHN082.13 and an E. coli violation rate of 2/9 at 5AMHN082.13. The segment was originally considered fully supporting but threatened during the year 1998 cycle, but was downgraded during the 2002 cycle. The E. coli impairment was added during the 2006 cycle.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Meherrin River		
TMDL Group ID:	01309		
VAP-K05R_MHN02B98	Meherrin River	BRUNSWICK CO	Hicks Creek to Lawrenceville PWS Intake.
VA Overall AU Category: 5A	Impairment	5.01 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01309 2006 2018	VAP-K05R-02 The Meherrin River from Taylors Creek to Reedy Creek was assessed not supporting of the Recreation use support goal based on fecal coliform violation rates of 4/20 at 5AMHN068.30, 2/16 at 5AMHN073.98, and 8/35 at 5AMHN082.13 and an E. coli violation rate of 2/9 at 5AMHN082.13. The segment was originally considered fully supporting but threatened during the year 1998 cycle, but was downgraded during the 2002 cycle. The E. coli impairment was added during the 2006 cycle.
Recreation	Fecal Coliform	Sources: Source Unknown 01309 2002 2014	VAP-K05R-02 The Meherrin River from Taylors Creek to Reedy Creek was assessed not supporting of the Recreation use support goal based on fecal coliform violation rates of 4/20 at 5AMHN068.30, 2/16 at 5AMHN073.98, and 8/35 at 5AMHN082.13 and an E. coli violation rate of 2/9 at 5AMHN082.13. The segment was originally considered fully supporting but threatened during the year 1998 cycle, but was downgraded during the 2002 cycle. The E. coli impairment was added during the 2006 cycle.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Meherrin River		
TMDL Group ID:	01314		
VAP-K05R_MHN03B98	Meherrin River	BRUNSWICK CO	Lawrenceville PWS intake to Reedy Creek. Segment extended in 2006 to incorporate VAP-K08R_MHN04B98, which was deleted.
VA Overall AU Category: 5A	Impairment 14.14 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01314 2006 2018	VAP-K05R-02 The Meherrin River from Taylors Creek to Reedy Creek was assessed not supporting of the Recreation use support goal based on fecal coliform violation rates of 4/20 at 5AMHN068.30, 2/16 at 5AMHN073.98, and 8/35 at 5AMHN082.13 and an E. coli violation rate of 2/9 at 5AMHN082.13. The segment was originally considered fully supporting but threatened during the year 1998 cycle, but was downgraded during the 2002 cycle. The E. coli impairment was added during the 2006 cycle.
Recreation	Fecal Coliform	Sources: Source Unknown 01314 2002 2014	VAP-K05R-02 The Meherrin River from Taylors Creek to Reedy Creek was assessed not supporting of the Recreation use support goal based on fecal coliform violation rates of 4/20 at 5AMHN068.30, 2/16 at 5AMHN073.98, and 8/35 at 5AMHN082.13 and an E. coli violation rate of 2/9 at 5AMHN082.13. The segment was originally considered fully supporting but threatened during the year 1998 cycle, but was downgraded during the 2002 cycle. The E. coli impairment was added during the 2006 cycle.
		Sources: Source Unknown	
TMDL Group ID:	01316		
VAP-K09R_MHN01D98	Meherrin River	EMPORIA CITY	Emporia Reservoir Dam to the Route 730 bridge Segment extended in 2006
VA Overall AU Category: 5A	Impairment 26.62 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Fish Consumption	Benzo[k]fluoranthene	01316 2002 2014	VAP-K09R-01 Beginning in the year 2002 cycle, the segment was assessed partially supporting of the fish consumption use based on 1996 fish tissue screening value exceedances for benzo(k)fluoranthene in two species. Arsenic was listed as an observed effect. During the year 2004 cycle, PCBs in fish tissue was added as an impairing cause and Mercury in fish tissue was added as an observed effect. The benzo(k)fluoranthene TMDL is due in 2014.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Meherrin River, Middle		
TMDL Group ID:	00695		
VAC-K01R_MMR01A98	Middle Meherrin River	LUNENBERG CO	Crupper Run to mouth.
VA Overall AU Category: 5A	Impairment	7.14 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Fecal Coliform	00695 2004 2016	
	Sources: Source Unknown		
Mill Swamp			
TMDL Watershed Name:	Mill Swamp		
TMDL Group ID:	00185		
VAT-K34R_MSW01A00	Mill Swamp	ISLE OF WIGHT CO SURRY CO	Located northwest of Raynor, upstream tributary to Rattlesnake Swamp. Segment begins at confluence of Moores Swamp with Mill Swamp (mile 16.78) downstream to confluence with Rattlesnake Swamp (mile 0.0).
VA Overall AU Category: 5D	Impairment	8.39 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Fecal Coliform	00185 1998 2005	Category 4A. EPA approved 9/27/2005. The Recreation Use is impaired due to fecal coliform bacteria exceedances. Insufficient number of E.coli bacteria indicator observations (N=11) to replace previous FC impairment.
	Sources: Commerical Districts (Shopping/Office Complexes) Crop Production (Crop Land or Dry Land) Livestock (Grazing or Feeding Operations) Residential Districts Sewage Discharges in Unsewered Areas Wildlife Other than Waterfowl		
TMDL Group ID:	00636		
VAT-K34R_MSW01A00	Mill Swamp	ISLE OF WIGHT CO SURRY CO	Located northwest of Raynor, upstream tributary to Rattlesnake Swamp. Segment begins at confluence of Moores Swamp with Mill Swamp (mile 16.78) downstream to confluence with Rattlesnake Swamp (mile 0.0).
VA Overall AU Category: 5D	Impairment	8.39 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Aquatic Life	Oxygen, Dissolved	00636 1998 2010	Aquatic Life Use is impaired due to depressed DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. Below criteria minimum = 4.0 mg/l
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed Source Unknown		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Mill Swamp		
TMDL Group ID:	76047		
VAT-K28R_MSP01A06	Mill Swamp	SOUTHAMPTON CO	Main stem Mill Swamp only. Tributary to Nottoway R, downstream of PWS. W of Delaware, between Darden Pond and Nottoway River.
VA Overall AU Category: 5A	Impairment 10.17 MILES	TMDL Group ID 76047	First Listed on 303(d) 2006
Use		TMDL Schedule 2018	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	76048		
VAT-K28R_MSP01A06	Mill Swamp	SOUTHAMPTON CO	Main stem Mill Swamp only. Tributary to Nottoway R, downstream of PWS. W of Delaware, between Darden Pond and Nottoway River.
VA Overall AU Category: 5A	Impairment 10.17 MILES	TMDL Group ID 76048	First Listed on 303(d) 2006
Use		TMDL Schedule 2018	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform		
Sources: Source Unknown			
TMDL Watershed Name:	Milldam Creek		
TMDL Group ID:	00186		
VAT-K41R_MLD02A06	Milldam Creek - Lower	VIRGINIA BEACH CITY	Tidally influenced portion of Milldam Creek from Blackwater Rd. crossing (RM 1.92) to confluence with North landing River @ RM 0.00.
VA Overall AU Category: 5D	Impairment 2.49 MILES	TMDL Group ID 00186	First Listed on 303(d) 2006
Use		TMDL Schedule 2005	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli		Category 4A. EPA approved 9/27/2005. Recreation Use impaired due to Ecoli concentrations exceeding the swimming indicator criteria. The previous Fecal Coliform indicator bacteria impairment no longer applies, replaced by Ecoli criteria impairment since threshold of 12 observations reached, with TMDL ID and due date same as original FC impairment.
Sources: Source Unknown			
TMDL Group ID:	00642		
VAT-K41R_MLD02A06	Milldam Creek - Lower	VIRGINIA BEACH CITY	Tidally influenced portion of Milldam Creek from Blackwater Rd. crossing (RM 1.92) to confluence with North landing River @ RM 0.00.
VA Overall AU Category: 5D	Impairment 2.49 MILES	TMDL Group ID 00642	First Listed on 303(d) 2002
Use		TMDL Schedule 2010	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved		The cause of the depressed dissolved oxygen concentrations is suspected to be naturally occurring and due to high organic content and stagnant (low freshwater flow) conditions within these waters. Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Muddy Creek		
TMDL Group ID:	01582		
VAT-K42E_MDY01A04	Muddy Creek	VIRGINIA BEACH CITY	Located southeast of Pungo. Segment begins at confluence with Ashville Bridge Creek and ends at the mouth, the confluence with North Bay.
VA Overall AU Category: 5A	Impairment	0.04 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Enterococcus	01582 2006 2016	Previous impairment based on fecal coliform is replaced by the new standard for Enterococcus, effective with attainment of observation minimum (4 violates / 15 observations). TMDL due date retained per H. Augustine e-mail 2/6/06.
Sources: Source Unknown			
TMDL Watershed Name:	Nawney Creek		
TMDL Group ID:	00183		
VAT-K42E_NWN01A00	Nawney Creek - Upper	VIRGINIA BEACH CITY	Upper portion of Nawney Creek, 0.8 mi. upstream of Nawney Creek Road bridge (RM 1.92) downstream 0.6 mi. from Nawney Creek Road bridge to RM 1.24.
VA Overall AU Category: 5D	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Enterococcus	00183 2004 2005	Category 4A. EPA approval 9/27/2005. Previous impairment based on fecal coliform is replaced by the new standard for Enterococcus, effective with attainment of observation minimum (6 violates / 14 observations). TMDL due date retained per H. Augustine e-mail 2/6/06.
Sources: Animal Feeding Operations (NPS) Crop Production (Crop Land or Dry Land) Livestock (Grazing or Feeding Operations) On-site Treatment Systems (Septic Systems and Similar Decentralized Systems) Runoff from Forest/Grassland/Parkland Waterfowl Wildlife Other than Waterfowl			
TMDL Watershed Name:	Nawney Creek, Upper		
TMDL Group ID:	00645		
VAT-K42E_NWN01A00	Nawney Creek - Upper	VIRGINIA BEACH CITY	Upper portion of Nawney Creek, 0.8 mi. upstream of Nawney Creek Road bridge (RM 1.92) downstream 0.6 mi. from Nawney Creek Road bridge to RM 1.24.
VA Overall AU Category: 5D	Impairment	0.02 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Aquatic Life	Oxygen, Dissolved	00645 1996 2010	
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Nebletts Mill Run and all its tributaries		
TMDL Group ID:	01352		
VAP-K23R_XDV01A02	UT to Nebletts Mill Run	SUSSEX CO	An unnamed tributary (XDV) of Nebletts Mill Run from its headwaters to its mouth.
VA Overall AU Category: 5A	Impairment 1.73 MILES	TMDL Group ID	First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01352	2006 2016 VAP-K23R-03
	Sources: Animal Feeding Operations (NPS) Source Unknown		E. coli impairment was added in 2006, however since the segment was already listed for fecal coliform bacteria, the TMDL due date is listed as 2016.
Recreation	Fecal Coliform	01352	2004 2016 VAP-K23R-03
	Sources: Animal Feeding Operations (NPS) Source Unknown		In addition, Nebletts Run from the Millpond downstream to the mouth and Tributary XDV had been considered not supporting of the Recreation Use. During the 2006 cycle, the fecal coliform violation rate at 5ANBT001.26 was acceptable (2/19), therefore Nebletts Mill Run should be delisted. Tributary XDV continues to be impaired with a fecal coliform instantaneous violation rate of 10/17 and an E. coli violation rate of 2/2. The bacteria TMDL is due in 2016.
TMDL Watershed Name:	North Landing River - Middle		
TMDL Group ID:	76058		
VAT-K41R_NLR02A06	North Landing River - Middle	CHESAPEAKE CITY VIRGINIA BEACH CITY	From confluence with Intracoastal Waterway (RM 13.65) downstream to instream Island (RM 12.01, upstream of confluence of West Neck Creek).
VA Overall AU Category: 5A	Impairment 8.48 MILES	TMDL Group ID	First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	76058	2006 2018 Recreation Use impaired due to Ecoli concentrations exceeding the swimming indicator criteria.
	Sources: Source Unknown		

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	North Landing River - Middle		
TMDL Group ID:	76061		
VAT-K41R_NLR02A06	North Landing River - Middle	CHESAPEAKE CITY VIRGINIA BEACH CITY	From confluence with Intracoastal Waterway (RM 13.65) downstream to instream Island (RM 12.01, upstream of confluence of West Neck Creek).
VA Overall AU Category: 5A	Impairment	8.48 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Wildlife	Chloride	76061	2006 2018 Wildlife Use impairment related to chloride exceedance of acute criteria (freshwater criteria apply since classified Tidal Freshwater). The cause of the chloride standard exceedance is attributed to naturally occurring conditions of saline water intrusion from downstream estuarine waters (Albemarle Sound, North Carolina).
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	North Landing River (Middle)		
TMDL Group ID:	01576		
VAT-K41R_NLR03A06	North Landing River - Lower	VIRGINIA BEACH CITY	All of North Landing River from RM 12.01 (at island upstream of confluence of West Neck Creek) downstream to VA/NC state line (RM 0.0).
VA Overall AU Category: 5A	Impairment	13.50 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Chloride	01576	2004 2016 The cause of the chloride standard exceedance is attributed to naturally occurring conditions of saline water intrusion from downstream estuarine waters (Currituck Sound). Exceed stream chloride criteria = 860 mg/L
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
Wildlife	Chloride	01576	2004 2016 The cause of the chloride standard exceedance is attributed to naturally occurring conditions of saline water intrusion from downstream estuarine waters (Currituck Sound).
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	North Meherrin River		
TMDL Group ID:	00463		
VAC-K02R_NMR01A98	North Meherrin River	LUNENBERG CO	Couches Creek to Reedy Creek.
VA Overall AU Category: 5A	Impairment	7.58 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Escherichia coli	00463	2006 2010
Sources: Source Unknown			
Recreation	Fecal Coliform	00463	2002 2010
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Northwest River		
TMDL Group ID:	00641		
VAT-K40R_NTW01A00	Northwest River - Upper (Non-PWS)	CHESAPEAKE CITY	Northwest River from mile 22.15 to 16.63, upstream of Chesapeake's intake and PWS area.
VA Overall AU Category: 5A	Impairment 6.39 MILES	TMDL Group ID 00641	First Listed on 303(d) 1998
Use Aquatic Life	Oxygen, Dissolved	TMDL Schedule 2010	Impairment Specific Comments and/or Impairment Specific VA Category Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
VAT-K40R_NTW02A00	Northwest River - Middle (PWS)	CHESAPEAKE CITY	Northwest River from RM 16.63 (start of PWS) to RM 8.23. PWS tidally influenced area.
VA Overall AU Category: 5A	Impairment 10.80 MILES	TMDL Group ID 00641	First Listed on 303(d) 1998
Use Aquatic Life	Oxygen, Dissolved	TMDL Schedule 2010	Impairment Specific Comments and/or Impairment Specific VA Category Combination of probable natural low D.O. due swamp waters & possible urban development causing phosphorus/low DO. Below criteria minimum = 4.0 mg/l.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Northwest River - Lower (PWS)		
TMDL Group ID:	76055		
VAT-K40R_NTW03A00	Northwest River - Lower (PWS)	CHESAPEAKE CITY	Northwest River from mile 8.22 downstream to mile 7.49 (VA/NC state line). PWS tidally influenced area.
VA Overall AU Category: 5A	Impairment 0.73 MILES	TMDL Group ID 76055	First Listed on 303(d) 2006
Use Recreation	Escherichia coli	TMDL Schedule 2018	Impairment Specific Comments and/or Impairment Specific VA Category Recreation Use impaired due to Ecoli concentrations exceeding the swimming indicator criteria (2/15).
Sources: Source Unknown			
TMDL Watershed Name:	Northwest River - Middle (PWS)		
TMDL Group ID:	76057		
VAT-K40R_NTW02A00	Northwest River - Middle (PWS)	CHESAPEAKE CITY	Northwest River from RM 16.63 (start of PWS) to RM 8.23. PWS tidally influenced area.
VA Overall AU Category: 5A	Impairment 10.80 MILES	TMDL Group ID 76057	First Listed on 303(d) 2006
Use Recreation	Escherichia coli	TMDL Schedule 2018	Impairment Specific Comments and/or Impairment Specific VA Category Recreation Use impaired due to Ecoli concentrations exceeding the swimming indicator criteria.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Northwest River (PWS), Unnamed Tributary		
TMDL Group ID:	76056		
VAT-K40R_XAM01A02	Unnamed tributary to Northwest River (PWS)	CHESAPEAKE CITY	Unnamed trib to Northwest River from St Brides Rd crossing to confluence with Northwest River. Within PWS area.
VA Overall AU Category: 5A	Impairment	4.24 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	76056	2006 2018 Recreation Use impaired due to Ecoli concentrations exceeding the swimming indicator criteria.
Sources: Source Unknown			
TMDL Watershed Name:	Northwest River, Unnamed Tributary		
TMDL Group ID:	01574		
VAT-K40R_XAM01A02	Unnamed tributary to Northwest River (PWS)	CHESAPEAKE CITY	Unnamed trib to Northwest River from St Brides Rd crossing to confluence with Northwest River. Within PWS area.
VA Overall AU Category: 5A	Impairment	4.24 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01574	2002 2014 Aquatic Life Use impairment due to low dissolved oxygen concentrations. The cause of the depressed dissolved oxygen concentrations is suspected to be naturally occurring and due to high organic content and stagnant (low freshwater flow) conditions within these waters. Below criteria minimum = 4.0 mg/l
Sources: Source Unknown			
TMDL Watershed Name:	Nottoway Falls Lake		
TMDL Group ID:	00745		
VAC-K14L_NTW01L00	Nottoway Falls Lake	LUNENBERG CO NOTTOWAY CO	Nottoway River
VA Overall AU Category: 5A	Impairment	32.07 ACRES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00745	2004 2016
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Nottoway Pond		
TMDL Group ID:	50019		
VAC-K15L_LZT01L00	Nottoway Pond	NOTTOWAY CO	Lazaretto Creek
VA Overall AU Category: 5A	Impairment	55.09 ACRES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use	Oxygen, Dissolved	50019	2006 2018
Aquatic Life		Sources: Source Unknown	
Nottoway River			
TMDL Watershed Name:	Nottoway River		
TMDL Group ID:	01334		
VAP-K17R_NTW01A00	Nottoway River	BRUNSWICK CO DINWIDDIE CO	Beaverpond Creek to Sturgeon Creek
VA Overall AU Category: 5A	Impairment	11.70 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use	Fecal Coliform	01334	2004 2016
Recreation		Sources: Source Unknown	VAP-K17R-03 The segment was assessed not supporting of the Recreation Use based on a fecal coliform violation rate of 5/34 at the Route 1 bridge (5ANTW109.02.)
TMDL Group ID:	50106		
VAC-K16R_NTW01B04	Nottoway River	BRUNSWICK CO NOTTOWAY CO	Nottoway River from Fort Pickett raw water intake to its confluence with Hurricane Branch.
VA Overall AU Category: 5A	Impairment	3.40 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use	Escherichia coli	50106	2006 2018
Recreation		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Otterdam Swamp		
TMDL Group ID:	01378		
VAP-K32R_OTR02A00	Otterdam Swamp	SURRY CO	Averys Pond to Blackwater River
VA Overall AU Category: 5A	Impairment	7.56 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01378 2006 2014	VAP-K32R-04 The segment was assessed not supporting of the Recreation Use goal based on the following violation rates: FC 3/7 at 5AOTR001.26; FC 9/49, E. coli 2/2 at 5AOTR004.31; FC 1/9 at 5AOTR005.69. These are confined animal feeding operation (CAFO) special study stations. E.coli was added as an impairing cause of the Recreation Use in 2006, however the original bacteria TMDL due date of 2014 was maintained.
Recreation	Fecal Coliform	Sources: Source Unknown 01378 2002 2014	VAP-K32R-04 The segment was assessed not supporting of the Recreation Use goal based on the following violation rates: FC 3/7 at 5AOTR001.26; FC 9/49, E. coli 2/2 at 5AOTR004.31; FC 1/9 at 5AOTR005.69. These are confined animal feeding operation (CAFO) special study stations.
		Sources: Source Unknown	
TMDL Watershed Name:	Otterdam Swamp, Unnamed Tributary		
TMDL Group ID:	10046		
VAP-K32R_XDR01A06	UT to Otterdam Swamp	SURRY CO	Headwaters to mouth at Otterdam Swamp
VA Overall AU Category: 5A	Impairment	2.55 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	10046 2006 2018	VAP-K32R-11 The segment is considered impaired of the Recreation Use due to a fecal coliform violation rate of 9/16 at 5AXDR00.38. The E. coli rate was 1/2, which is considered insufficient for assessment.
		Sources: Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Otterdam Swamp, Unnamed Tributary		
TMDL Group ID:	10048		
VAP-K32R_XDS01A06	UT to Otterdam Swamp	SURRY CO	Headwaters to mouth at Otterdam Swamp
VA Overall AU Category: 5C	Impairment	1.14 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	10048 2006 2018	VAP-K32R-12 The segment was reclassified as Class VII swampwaters during the 2006 cycle and the pH criteria was adjusted to 4.3 - 9.0 SU, however the pH violation rate remains 2/7. Although the violations are believed to be caused by natural swampwater conditions, the segment must be assessed as Cat. 5C.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Pocaty River		
TMDL Group ID:	01577		
VAT-K41R_PCT01A02	Pocaty River	CHESAPEAKE CITY VIRGINIA BEACH CITY	Pocaty River and selected tribs. from headwaters at mile 3.92 to confluence with North Landing River at mile 0.00.
VA Overall AU Category: 5A	Impairment	7.19 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01577 2002 2014	Aquatic Life Use impairment due to low dissolved oxygen concentrations. The cause of the depressed dissolved oxygen concentrations is suspected to be naturally occurring and due to high organic content and stagnant conditions within swamp waters. Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Raccoon Creek, Unnamed Tributary		
TMDL Group ID:	10012		
VAP-K25R_XFA01A06	UT to Raccoon Creek	SUSSEX CO	Headwaters to mouth
VA Overall AU Category: 5C	Impairment	4.34 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	10012 2006 2018	VAP-K25R-05 During the year 2006 cycle, Raccoon Creek and its tributaries were reclassified as Class VII swampwaters. However, the DO criteria specific for swampwater is still under development. The segment is considered impaired for DO and classified as Cat. 4C. In addition, the segment violates the new Class VII swampwater criteria for pH, therefore the segment is assessed as Cat 5C for pH. DO 6/14, pH 4/14 at 5AXFA000.27 DO 3/11, pH 3/11 at 5AXFA002.50
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Rattlesnake Creek		
TMDL Group ID:	01318		
VAP-K10R_RSK01A00	Rattlesnake Creek	BRUNSWICK CO GREENSVILLE CO	Edwards Creek to Fontaine Creek.
VA Overall AU Category: 5A	Impairment	8.92 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01318 2002 2010	VAP-K10R-01 The segment was assessed in 2004 as not supporting of both the Recreation and Aquatic Life Uses based on sampling at the Route 672 bridge (5ARSK003.08) (pH 4/20; fecal coliform 3/20). Monitoring ceased in 2001, therefore the 2004 assessment is carried over.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Rattlesnake Swamp		
TMDL Group ID:	00637		
VAT-K34R_RKN01A02	Rattlesnake Swamp	ISLE OF WIGHT CO	Located northwest of Raynor. Rattlesnake Swamp entirety. Segment from confluence of Pouches Swamp, downstream to confluence with Blackwater River.
VA Overall AU Category: 5F	Impairment	6.09 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Oxygen, Dissolved	00637	2002 2010 Aquatic Life Use is impaired due to depressed DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (15 violates / 52 obs.) does not meet previous criteria applicable at time of listing = 4.0 mg/l). Impairment is suspected due to natural swamp conditions present in these waters.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
Source Unknown			
TMDL Group ID:	00661		
VAP-K10R_RSK01A00	Rattlesnake Creek	BRUNSWICK CO GREENSVILLE CO	Edwards Creek to Fontaine Creek.
VA Overall AU Category: 5A	Impairment	8.92 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	pH	00661	2002 2010 VAP-K10R-01
The segment was assessed in 2004 as not supporting of both the Recreation and Aquatic Life Uses based on sampling at the Route 672 bridge (5ARSK003.08) (pH 4/20; fecal coliform 3/20).			
Monitoring ceased in 2001, therefore the 2004 assessment is carried over.			
Sources: Source Unknown			
TMDL Watershed Name:	Redhead Bay at Drum Point		
TMDL Group ID:	76065		
VAT-K42E_BKY02A00	Redhead Bay at Drum Point	VIRGINIA BEACH CITY	Redhead Bay at Drum Point, mouth of Nawney Creek
VA Overall AU Category: 5A	Impairment	0.20 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Recreation	Enterococcus	76065	2006 2018
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Rowanty Creek		
TMDL Group ID:	01351		
VAP-K23R_ROW02A00	Rowanty Creek	DINWIDDIE CO	Rowanty Creek between Gravelly Run and Little Cattail Creek.
VA Overall AU Category: 5A	Impairment	1.11 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01351	2002 2014 VAP-K23R-02
This segment of Rowanty Creek is considered not supporting the Recreation Use based on a fecal coliform violation rate of 6/20 at the Route 605 bridge (5AROW013.14) during the 2004 cycle.			
Sources: Source Unknown			
TMDL Watershed Name:	Rowanty Creek, Gosee Swamp and Tributaries		
TMDL Group ID:	00477		
VAP-K23R_GSE01A98	Gosee Swamp and tributaries	PRINCE GEORGE CO SUSSEX CO	Gosee Swamp and all its tributaries.
VA Overall AU Category: 5C	Impairment	12.51 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	00477	1998 2010 VAP-K23R-01
The Gosee Swamp watershed was assessed as not supporting of the Aquatic Life use because of a DO violation rate of 2/2 and a pH 2/2 at 5AGSE001.35 during the 1998 cycle. There has been no additional monitoring.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
VAP-K23R_HRA01A04	Hatcher Run	DINWIDDIE CO	Hatcher Run from its headwaters to the pond below 627.
VA Overall AU Category: 5A	Impairment	4.38 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	00477	1998 2010 VAP-K23R-01
The entire Rowanty Creek watershed has previously been assessed not supporting of the Aquatic Life use support goal based on DO and pH violations at 5AHRA010.94, 5AROW013.14, and 5AROW002.41 and DO, pH violations in 1994 at 5APCT001.23, 5AGRV006.00, 5AGRV004.35, 5AHRA010.94, 5AHRA003.42, 5AHRA002.92, 5AATH003.28, 5ALCC000.54, 5AROW008.64, and 5AROW004.72.			
During the 2006 cycle, the lower portion of the Rowanty Creek watershed below Gravelly Run was reclassified as Class VII swampwaters. That segment is now in conformance with the pH and DO standards and will be delisted. However, the upper Class III portion still has pH and DO violations at 5AATH003.28 (3/4, 3/4) and 5AHRA010.94 (4/12, 4/13) and will remain impaired.			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Rowanty Creek, Gosee Swamp and Tributaries		
TMDL Group ID:	00477		
VAP-K23R_ROW01A98	Rowanty Creek and Tributaries	DINWIDDIE CO	Rowanty Creek watershed above Gravelly Run, excluding Hatcher Run from its headwaters to the pond below Rt. 627. Segment split in 2006 and VAP-K23R_ROW03A06 was added.
VA Overall AU Category: 5C	Impairment	93.46 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	pH	00477	1998 2010 VAP-K23R-01
<p>The entire Rowanty Creek watershed has previously been assessed not supporting of the Aquatic Life use support goal based on DO and pH violations at 5AHRA010.94, 5AROW013.14, and 5AROW002.41 and DO, pH violations in 1994 at 5APCT001.23, 5AGRV006.00, 5AGRV004.35, 5AHRA010.94, 5AHRA003.42, 5AHRA002.92, 5AATH003.28, 5ALCC000.54, 5AROW008.64, and 5AROW004.72.</p> <p>During the 2006 cycle, the lower portion of the Rowanty Creek watershed below Gravelly Run was reclassified as Class VII swampwaters. That segment is now in conformance with the pH and DO standards and will be delisted. However, the upper Class III portion still has pH and DO violations at 5AATH003.28 (3/4, 3/4) and 5AHRA010.94 (4/12, 4/13) and will remain impaired.</p>			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	00478		
VAP-K23R_GSE01A98	Gosee Swamp and tributaries	PRINCE GEORGE CO SUSSEX CO	Gosee Swamp and all its tributaries.
VA Overall AU Category: 5C	Impairment	12.51 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use			
Aquatic Life	Oxygen, Dissolved	00478	1998 2010 VAP-K23R-01
<p>The Gosee Swamp watershed was assessed as not supporting of the Aquatic Life use because of a DO violation rate of 2/2 and a pH 2/2 at 5AGSE001.35 during the 1998 cycle. There has been no additional monitoring.</p>			
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Rowanty Creek, Gosee Swamp and Tributaries		
TMDL Group ID:	00478		
VAP-K23R_HRA01A04	Hatcher Run	DINWIDDIE CO	Hatcher Run from its headwaters to the pond below 627.
VA Overall AU Category: 5A	Impairment 4.38 MILES	TMDL Group ID 00478	First Listed on 303(d) 1998
Use Aquatic Life	Oxygen, Dissolved	TMDL Schedule 2010	Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-K23R-01
			The entire Rowanty Creek watershed has previously been assessed not supporting of the Aquatic Life use support goal based on DO and pH violations at 5AHRA010.94, 5AROW013.14, and 5AROW002.41 and DO, pH violations in 1994 at 5APCT001.23, 5AGRV006.00, 5AGRV004.35, 5AHRA010.94, 5AHRA003.42, 5AHRA002.92, 5AATH003.28, 5ALCC000.54, 5AROW008.64, and 5AROW004.72.
			During the 2006 cycle, the lower portion of the Rowanty Creek watershed below Gravelly Run was reclassified as Class VII swampwaters. That segment is now in conformance with the pH and DO standards and will be delisted. However, the upper Class III portion still has pH and DO violations at 5AATH003.28 (3/4, 3/4) and 5AHRA010.94 (4/12, 4/13) and will remain impaired.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
VAP-K23R_ROW01A98	Rowanty Creek and Tributaries	DINWIDDIE CO	Rowanty Creek watershed above Gravelly Run, excluding Hatcher Run from its headwaters to the pond below Rt. 627. Segment split in 2006 and VAP-K23R_ROW03A06 was added.
VA Overall AU Category: 5C	Impairment 93.46 MILES	TMDL Group ID 00478	First Listed on 303(d) 1998
Use Aquatic Life	Oxygen, Dissolved	TMDL Schedule 2010	Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-K23R-01
			The entire Rowanty Creek watershed has previously been assessed not supporting of the Aquatic Life use support goal based on DO and pH violations at 5AHRA010.94, 5AROW013.14, and 5AROW002.41 and DO, pH violations in 1994 at 5APCT001.23, 5AGRV006.00, 5AGRV004.35, 5AHRA010.94, 5AHRA003.42, 5AHRA002.92, 5AATH003.28, 5ALCC000.54, 5AROW008.64, and 5AROW004.72.
			During the 2006 cycle, the lower portion of the Rowanty Creek watershed below Gravelly Run was reclassified as Class VII swampwaters. That segment is now in conformance with the pH and DO standards and will be delisted. However, the upper Class III portion still has pH and DO violations at 5AATH003.28 (3/4, 3/4) and 5AHRA010.94 (4/12, 4/13) and will remain impaired.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Sappony Creek		
TMDL Group ID:	10009		
VAP-K22R_SAP01A00	Sappony Creek	DINWIDDIE CO SUSSEX CO	Headwaters to Spiers Pond.
VA Overall AU Category: 5A	Impairment	20.98 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	10009	2006 2018 VAP-K22R-03
Sources: Source Unknown			
The segment was assessed as impaired of the Recreation Use due to an E. coli violation rate of 3/12 at 5ASAP005.54 during the 2006 cycle. The E. coli rate at 5ASAP013.69 was acceptable (2/19).			
Seacock Swamp - Upper			
TMDL Watershed Name:	Seacock Swamp - Upper		
TMDL Group ID:	00638		
VAT-K35R_SCK01A00	Seacock Swamp - Upper	SOUTHAMPTON CO SURREY CO	Located west of Rt 460, south of Sussex - Southampton Co. line. Upper portion of Seacock Swamp, from Drumwright Pond downstream to confluence with unnamed tributary, approx. 0.1 mi downstream of Rt 628 crossing.
VA Overall AU Category: 5A	Impairment	0.80 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00638	1998 2010 Aquatic Life Use is impaired due to depressed DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (2 violates / 8 obs.) does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. . Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	76050		
VAT-K35R_SCK01A00	Seacock Swamp - Upper	SOUTHAMPTON CO SURREY CO	Located west of Rt 460, south of Sussex - Southampton Co. line. Upper portion of Seacock Swamp, from Drumwright Pond downstream to confluence with unnamed tributary, approx. 0.1 mi downstream of Rt 628 crossing.
VA Overall AU Category: 5A	Impairment	0.80 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	76050	2006 2018
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Seacock Swamp, Lower		
TMDL Group ID:	01557		
VAT-K35R_SCK02A00	Seacock Swamp - Lower	SOUTHAMPTON CO	Located west of Rt 460, north of Ivor. Lower portion of Seacock Swamp, from confluence with Brantley Swamp (RM 8.73) downstream to confluence with Round Hill Swamp (RM 6.26).
VA Overall AU Category: 5A	Impairment	2.47 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Fecal Coliform	01557 2004 2016	
	Sources: Source Unknown		
TMDL Watershed Name:	Seacock Swamp, Unnamed Tributary		
TMDL Group ID:	01558		
VAT-K35R_XDY01A04	UT Seacock Swamp	SURRY CO	UT to Seacock Swamp, PRO CAFO special study. Headwaters to confluence with Seacock Swamp mainstem.
VA Overall AU Category: 5A	Impairment	1.02 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Recreation	Fecal Coliform	01558 2004 2016	
	Sources: Source Unknown		Confined animal operations are present in the watershed.
TMDL Group ID:	01559		
VAT-K35R_XDY01A04	UT Seacock Swamp	SURRY CO	UT to Seacock Swamp, PRO CAFO special study. Headwaters to confluence with Seacock Swamp mainstem.
VA Overall AU Category: 5A	Impairment	1.02 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Use Aquatic Life	Oxygen, Dissolved	01559 2004 2016	
	Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed		Aquatic Life Use is impaired due to depressed DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (3 violates / 6 obs) does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters, but confined animal operations are present in the watershed. Below criteria minimum = 4.0 mg/l

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Seacock Swamp, Unnamed Tributary		
TMDL Group ID:	01560		
VAT-K35R_XDY01A04	UT Seacock Swamp	SURRY CO	UT to Seacock Swamp, PRO CAFO special study. Headwaters to confluence with Seacock Swamp mainstem.
VA Overall AU Category: 5A	Impairment	1.02 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH		01560 2004 2016 Aquatic Life Use is impaired due to depressed pH concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (2 violates / 6 obs) does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. Below pH minimum criteria = 6.0 SU
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Seacock Swamp, Upper		
TMDL Group ID:	00669		
VAT-K35R_SCK01A00	Seacock Swamp - Upper	SOUTHAMPTON CO SURRY CO	Located west of Rt 460, south of Sussex - Southampton Co. line. Upper portion of Seacock Swamp, from Drumwright Pond downstream to confluence with unnamed tributary, approx. 0.1 mi downstream of Rt 628 crossing.
VA Overall AU Category: 5A	Impairment	0.80 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH		00669 1998 2010 Aquatic Life Use is impaired due to depressed pH concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data (2 violates / 8 obs.) does not meet previous criteria applicable at time of listing). Impairment is suspected due to natural swamp conditions present in these waters. . Below pH minimum criteria = 6.0 SU
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Seacorrie Swamp		
TMDL Group ID:	01362		
VAP-K29R_SRE01A02	Seacorrie Swamp	SUSSEX CO	Seacorrie Swamp
VA Overall AU Category: 5A	Impairment	6.90 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01362 2006 2014	VAP-K29R-01 E. coli added in 2006. Existing TMDL date for the fecal coliform impairment was maintained. Sources: Animal Feeding Operations (NPS) Source Unknown
Recreation	Fecal Coliform	01362 2002 2014	VAP-K29R-01 E. coli added in 2006. Existing TMDL date for the fecal coliform impairment was maintained. Sources: Animal Feeding Operations (NPS) Source Unknown

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Seacorrie Swamp, Unnamed Tributary		
TMDL Group ID:	00527		
VAP-K29R_XDX01A02	Seacorrie Swamp, UT	SUSSEX CO	Unnamed tributary to Seacorrie Swamp
VA Overall AU Category: 5A	Impairment	1.46 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Ammonia (Un-ionized)	00527 2002 2014	VAP-K29R-01 Assamoosick Swamp, Seacorrie Swamp, German Swamp, and Pigeon Swamp were originally listed as impaired of the Aquatic Life Use in 1998 based on pH and DO violations throughout the watershed. Station 5AASM008.12 was later mistakenly listed on EPA's ""Waters Identified to Virginia for Listing Consideration During Development of the Next List"" for pH even though the segment was already 303(d) listed. The pH and DO TMDLs for these creeks are due in 2010. In the year 2002 cycle, UT to Seacorrie Swamp XDX was added for DO and ammonia. These TMDLs are due in 2014.
Wildlife	Ammonia (Un-ionized)	Sources: Animal Feeding Operations (NPS) Source Unknown 00527 2002 2014	VAP-K29R-01 In 2004, the segment was considered impaired because of ammonia violations. Although there were no exceedances of the acute criteria during the 2006, there were 2 exceedances of the chronic criteria, therefore the segment will remain listed.
		Sources: Animal Feeding Operations (NPS) Source Unknown	
TMDL Group ID:	01363		
VAP-K29R_XDX01A02	Seacorrie Swamp, UT	SUSSEX CO	Unnamed tributary to Seacorrie Swamp
VA Overall AU Category: 5A	Impairment	1.46 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01363 2006 2014	VAP-K29R-01 E. coli was added in 2006, but the TMDL due date for the initial fecal coliform impairment is maintained.
		Sources: Animal Feeding Operations (NPS) Source Unknown	
Recreation	Fecal Coliform	01363 2002 2014	VAP-K29R-01 E. coli was added in 2006, but the TMDL due date for the initial fecal coliform impairment is maintained.
		Sources: Animal Feeding Operations (NPS) Source Unknown	

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Second Swamp		
TMDL Group ID:	01369		
VAP-K31R_SEC01A04	Second Swamp	PETERSBURG CITY PRINCE GEORGE CO	The entire mainstem of Second Swamp
VA Overall AU Category: 5A	Impairment	15.21 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01369	2004 2016 VAP-K31R-02
The segment remains impaired of the Recreation Use due to a fecal coliform violation rate of 2/12.			
Sources: Source Unknown			
Shipps Bay, Back Bay Area			
TMDL Watershed Name:	Shipps Bay, Back Bay Area		
TMDL Group ID:	76066		
VAT-K42E_SHB01A00	Shipps Bay, Back Bay Area	VIRGINIA BEACH CITY	Shipps Bay portion of main Back Bay waters. South of North Bay.
VA Overall AU Category: 5A	Impairment	3.00 SQUARE MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	76066	2006 2018 pH impairment due to low (<6.0 SU) concentrations 3/21 [5.81, 5.91, 5.92 SU].
Sources: Source Unknown			
Somerton Creek			
TMDL Watershed Name:	Somerton Creek		
TMDL Group ID:	00640		
VAT-K38R_STN01A00	Somerton Creek	SUFFOLK CITY	Somerton Creek from 5 miles upstream from monitoring station (RM 10.36) downstream to VA/NC state line.
VA Overall AU Category: 5A	Impairment	10.36 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	00640	1996 2010 pH & DO impairments continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data does not meet previous criteria applicable at time of listing). Below criteria minimum = 4.0 mg/l. The pH & DO impairment are suspected due to natural swamp conditions present in these waters.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Somerton Creek		
TMDL Group ID:	00671		
VAT-K38R_STN01A00	Somerton Creek	SUFFOLK CITY	Somerton Creek from 5 miles upstream from monitoring station (RM 10.36) downstream to VA/NC state line.
VA Overall AU Category: 5A	Impairment	10.36 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	00671 1996 2010	pH & DO impairments continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data does not meet previous criteria applicable at time of listing). Below pH minimum criteria = 6.0 SU. The pH & DO impairment are suspected due to natural swamp conditions present in these waters.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	76053		
VAT-K38R_STN01A00	Somerton Creek	SUFFOLK CITY	Somerton Creek from 5 miles upstream from monitoring station (RM 10.36) downstream to VA/NC state line.
VA Overall AU Category: 5A	Impairment	10.36 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Benthic-Macroinvertebrate Bioassessments (Streams)	76053 2006 2018	ALUS impairment due to benthic assessemnt rating of MI in 2000 & 2004.
Sources: Source Unknown			
TMDL Watershed Name:	Somerton Creek, Unnamed Tributary (March Swamp)		
TMDL Group ID:	01570		
VAT-K38R_MAR01A06	March Swamp	SUFFOLK CITY	Northeast of Factory Hill. Northern tributary to Somerton Creek, parallel to Rt 615.
VA Overall AU Category: 5C	Impairment	7.47 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01570 2004 2016	Aquatic Life Use impaired due to depressed DO concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data does not meet previous criteria (2/11) applicable at time of listing). Below criteria minimum = 4.0 mg/l. Impairment is suspected due to natural swamp conditions present in these waters.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Somerton Creek, Unnamed Tributary (March Swamp)		
TMDL Group ID:	01571		
VAT-K38R_MAR01A06	March Swamp	SUFFOLK CITY	Northeast of Factory Hill. Northern tributary to Somerton Creek, parallel to Rt 615.
VA Overall AU Category: 5C	Impairment	7.47 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01571	2004 2016 Aquatic Life Use impaired due to depressed pH concentrations, impairment continued from 2004 IR (segment Class change from III to VII, can not delist previous impairments since current data does not meet previous criteria (6/11) applicable at time of listing). Below pH minimum criteria = 6.0 SU. Impairment is suspected due to natural swamp conditions present in these waters.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	South Meherrin River		
TMDL Group ID:	50101		
VAC-K01R_SMR01A06	South Meherrin River	LUNENBERG CO MECKLENBURG CO	South Meherrin River from Finneywood Creek to Blackstone Creek.
VA Overall AU Category: 5A	Impairment	7.02 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	50101	2006 2018
Sources: Source Unknown			
TMDL Watershed Name:	Spring Branch		
TMDL Group ID:	00204		
VAP-K32R_SRN01A94	Spring Branch	SUSSEX CO	Spurlock Adhesives discharge to Blackwater River.
VA Overall AU Category: 5A	Impairment	3.52 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Benthic-Macroinvertebrate Bioassessments (Streams)	00204	1998 2010 VAP-K32R-02
Sources: Industrial Point Source Discharge Municipal Point Source Discharges Source Unknown			
The benthic TMDL is in progress. Preliminary indications show excessive Total Phosphorus as the impairing cause.			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Stony Creek		
TMDL Group ID:	01307		
VAP-K04R_SNY01A96	Stony Creek	LUNENBERG CO	Headwaters to mouth.
VA Overall AU Category: 5A	Impairment	13.78 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01307	2004 2016 VAP-K04R-01
During the 2004 cycle, the segment was assessed not supporting of the Recreation use support goal based on a fecal coliform violation rate of 3/19 at the Rt. 602 bridge (5ASNY000.65).			
There was no new data since 02/2001, therefore the 2004 assessment status is carried over.			
Sources: Source Unknown			
TMDL Watershed Name:	Sturgeon Creek		
TMDL Group ID:	01338		
VAP-K18R_STG01A98	Sturgeon Creek	BRUNSWICK CO	Lloyds Run to Nottoway River.
VA Overall AU Category: 5A	Impairment	8.06 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01338	2004 2016 VAP-K18R-01
During the year 2004 cycle, the segment had a pH violation rate of 2/19 at 5ASTG005.96 and was assessed not supporting of the Aquatic Life use goal. No new data has been collected since 2001, therefore the 2004 assessment is carried over. The TMDL is due in 2016.			
Sources: Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Tarrara Creek		
TMDL Group ID:	00634		
VAT-K13R_TRR01A00	Tarrara Creek	SOUTHAMPTON CO	Located northeast of Boykins. All of Tarrara Creek. Flat, marshy with low flow swamp characteristics.
VA Overall AU Category: 5A	Impairment 13.61 MILES	TMDL Group ID 00634	First Listed on 303(d) 1996
Use Aquatic Life	Oxygen, Dissolved	TMDL Schedule 2010	Impairment Specific Comments and/or Impairment Specific VA Category
			The DO impairment is continued from 2004 IR. Although the segment standard Class has changed from III to VII, can not delist previous impairment for DO since current data (7 violates / 39 obs. = 17.9% violation rate) does not meet previous criteria (2004 IR DO criteria = 4.0 mg/l minimum) applicable at time of listing. The cause of the impairment is suspected to be naturally occurring and due to high organic content and stagnant (low freshwater flow) conditions within these waters.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	Three Creek		
TMDL Group ID:	10108		
VAP-K26R_TRE02B98	Three Creek	GREENSVILLE CO SOUTHAMPTON CO	Otterdam Swamp to Browns Branch.
VA Overall AU Category: 5A	Impairment 6.44 MILES	TMDL Group ID 10108	First Listed on 303(d) 2006
Use Recreation	Escherichia coli	TMDL Schedule 2018	Impairment Specific Comments and/or Impairment Specific VA Category
			VAP-K26R-02
			During the year 2006 cycle, the segment was assessed not supporting of the Recreation use support goal based on an E. coli violation rate of 3/9 at 5ATRE022.05.
Sources: Source Unknown			
TMDL Watershed Name:	Three Creek - Upper		
TMDL Group ID:	76045		
VAT-K27R_TRE01A00	Three Creek - Upper	SOUTHAMPTON CO	From confluence of Chatman Branch (RM 20.95) downstream to above Southampton Correctional Farm at Rt 308 crossing (RM 10.04).
VA Overall AU Category: 5A	Impairment 9.12 MILES	TMDL Group ID 76045	First Listed on 303(d) 2006
Use Aquatic Life	Benthic-Macroinvertebrate Bioassessments (Streams)	TMDL Schedule 2018	Impairment Specific Comments and/or Impairment Specific VA Category
			Stream benthic monitoring assessment indicates impairment (MI in Spring-'00,Fall-'0
Sources: Source Unknown			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Three Creek - Upper		
TMDL Group ID:	76046		
VAT-K27R_TRE01A00	Three Creek - Upper	SOUTHAMPTON CO	From confluence of Chatman Branch (RM 20.95) downstream to above Southampton Correctional Farm at Rt 308 crossing (RM 10.04).
VA Overall AU Category: 5A	Impairment	9.12 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	76046	2006 2018
Sources: Source Unknown			
TMDL Watershed Name:	Three Creek, Lower		
TMDL Group ID:	01546		
VAT-K27R_TRE02A00	Three Creek - Lower	SOUTHAMPTON CO	Lower portion of Three Creek. From area of Southampton Correctional Center at Rt 308 crossing (RM 10.04) downstream to confluence with Nottoway River (RM 0.00).
VA Overall AU Category: 5A	Impairment	13.31 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	01546	2006 2010
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Waqua Creek		
TMDL Group ID:	01335		
VAP-K17R_WAQ01B00	Waqua Creek	BRUNSWICK CO LUNENBERG CO	Headwaters to Route 46 bridge.
VA Overall AU Category: 5A	Impairment	2.18 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Oxygen, Dissolved	01335	2002 2014 VAP-K17R-02
<p>In 2004, the segment was assessed not supporting of the Aquatic Life Use and Recreation Use goals based on the following violations: pH 7/17 at 5AWAQ020.52 (Route 617); DO 2/11, pH 10/11 at 5AWAQ022.17; Fecal coliform 5/19 at 5AWAQ020.52 and 2/10 at 5AWAQ022.17.</p> <p>These stations were confined animal feeding operation (CAFO) special study stations.</p> <p>There has been no additional monitoring since 2002, so the 2004 assessment is carried over.</p> <p>Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed Source Unknown</p>			
TMDL Group ID:	01336		
VAP-K17R_WAQ01B00	Waqua Creek	BRUNSWICK CO LUNENBERG CO	Headwaters to Route 46 bridge.
VA Overall AU Category: 5A	Impairment	2.18 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	pH	01336	2002 2014 VAP-K17R-02
<p>In 2004, the segment was assessed not supporting of the Aquatic Life Use and Recreation Use goals based on the following violations: pH 7/17 at 5AWAQ020.52 (Route 617); DO 2/11, pH 10/11 at 5AWAQ022.17; Fecal coliform 5/19 at 5AWAQ020.52 and 2/10 at 5AWAQ022.17.</p> <p>These stations were confined animal feeding operation (CAFO) special study stations.</p> <p>There has been no additional monitoring since 2002, so the 2004 assessment is carried over.</p> <p>Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed Source Unknown</p>			

Appendix A - List of Impaired (Category 5) Waters in 2006*

Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	Waqua Creek		
TMDL Group ID:	01337		
VAP-K17R_WAQ01B00	Waqua Creek	BRUNSWICK CO LUNENBERG CO	Headwaters to Route 46 bridge.
VA Overall AU Category: 5A	Impairment	2.18 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01337	2002 2014 VAP-K17R-02
<p>In 2004, the segment was assessed not supporting of the Aquatic Life Use and Recreation Use goals based on the following violations: pH 7/17 at 5AWAQ020.52 (Route 617); DO 2/11, pH 10/11 at 5AWAQ022.17; Fecal coliform 5/19 at 5AWAQ020.52 and 2/10 at 5AWAQ022.17.</p> <p>These stations were confined animal feeding operation (CAFO) special study stations.</p> <p>There has been no additional monitoring since 2002, so the 2004 assessment is carried over.</p>			
Sources: Source Unknown			
TMDL Watershed Name:	Warwick Swamp		
TMDL Group ID:	01367		
VAP-K31R_WKS01A00	Warwick Swamp	DINWIDDIE CO PRINCE GEORGE CO	Warwick Swamp from its headwaters to the Route 627 bridge.
VA Overall AU Category: 5A	Impairment	12.87 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	01367	2002 2014 VAP-K31R-01
<p>In the 1998 cycle, Warwick Swamp from its headwaters to the Route 627 bridge was assessed fully supporting but threatened of the Recreation use. During the year 2002 cycle, the entire mainstems of Warwick Swamp and Blackwater Swamp were considered impaired of the Recreation use. Due to an acceptable fecal coliform violation rate at 5AWKS001.00, the Warwick Swamp segment was shortened to its original length in 2004. During the 2006 cycle, there was no additional monitoring at 5AWKS009.11, therefore the impairment is carried over. The fecal coliform TMDL is due in 2014.</p>			
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	West Neck Creek - Lower		
TMDL Group ID:	76060		
VAT-K41R_WNC02A04	West Neck Creek - Lower	VIRGINIA BEACH CITY	Segment and tribs. from widening of creek (RM 3.10) approx. 0.55 mi downstream of Indian River Road crossing downstream to mouth (RM 0.0) at confluence with North Landing River.
VA Overall AU Category: 5D	Impairment 6.11 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Escherichia coli	76060 2006 2005	Category 4A. EPA approved 9/27/2005. Recreation Use impaired due to Ecoli concentrations exceeding the swimming indicator criteria (2/15).
Sources: Source Unknown			
TMDL Watershed Name:	West Neck Creek, Lower		
TMDL Group ID:	01579		
VAT-K41R_WNC02A04	West Neck Creek - Lower	VIRGINIA BEACH CITY	Segment and tribs. from widening of creek (RM 3.10) approx. 0.55 mi downstream of Indian River Road crossing downstream to mouth (RM 0.0) at confluence with North Landing River.
VA Overall AU Category: 5D	Impairment 6.11 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Aquatic Life	Chloride	01579 2004 2016	Exceed stream chloride criteria = 860 mg/L. The cause of the chloride standard exceedance is attributed to naturally occurring conditions of saline water intrusion from upstream and downstream estuarine waters.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
Wildlife	Chloride	01579 2004 2016	Exceed stream chloride criteria = 860 mg/L. The cause of the chloride standard exceedance is attributed to naturally occurring conditions of saline water intrusion from upstream and downstream estuarine waters.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Watershed Name:	West Neck Creek, Middle		
TMDL Group ID:	00189		
VAT-K41R_WNC01A00	West Neck Creek - Middle	VIRGINIA BEACH CITY	Segment from southside of Princess Anne road crossing (RM 6.20) downstream to widening of creek (RM 3.10) approx. 0.55 mi downstream of Indian River Road crossing.
VA Overall AU Category: 5D	Impairment 3.84 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Recreation	Fecal Coliform	00189 2002 2005	Category 4A. EPA approved 9/27/2005. Previous impairment (TMDL ID: VAT-K41R-05) based on fecal coliform is retained as data shows impairment (7 violates / 38 observations). Not able to replace with the new standard for Ecoli, although shows support (1 violate / 11 observations) as can replace with new Ecoli criteria only after attainment of 12 observation minimum.
Sources: Source Unknown			

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Assessment Unit ID	Waterbody Name	City / County	Assessment Unit Description
Chowan River and Dismal Swamp Basins			
TMDL Watershed Name:	West Neck Creek, Middle		
TMDL Group ID:	00644		
VAT-K41R_WNC01A00	West Neck Creek - Middle	VIRGINIA BEACH CITY	Segment from southside of Princess Anne road crossing (RM 6.20) downstream to widening of creek (RM 3.10) approx. 0.55 mi downstream of Indian River Road crossing.
VA Overall AU Category: 5D	Impairment 3.84 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Use Aquatic Life	Oxygen, Dissolved	00644 1998 2010	The cause of the depressed dissolved oxygen concentrations is suspected to be naturally occurring and due to high organic content and stagnant conditions within swamp waters. Below criteria minimum = 4.0 mg/l
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
TMDL Group ID:	01578		
VAT-K41R_WNC01A00	West Neck Creek - Middle	VIRGINIA BEACH CITY	Segment from southside of Princess Anne road crossing (RM 6.20) downstream to widening of creek (RM 3.10) approx. 0.55 mi downstream of Indian River Road crossing.
VA Overall AU Category: 5D	Impairment 3.84 MILES	TMDL Group ID First Listed on 303(d) TMDL Schedule	Impairment Specific Comments and/or Impairment Specific VA Category
Use Aquatic Life	Chloride	01578 2004 2016	The cause of the chloride standard exceedance is attributed to naturally occurring conditions of saline water intrusion from upstream and downstream estuarine waters. Exceed stream chloride criteria = 860 mg/L.
Sources: Natural Conditions - Water Quality Standards Use Attainability Analyses Needed			
Wildlife	Chloride	01578 2004 2016	
Sources: Natural Sources			

Note: * Includes Category 4A and 4C Impairments within each Assessment Unit. Assessment Units may extend across jurisdictional boundaries.